

Impact of Problem based Learning in Architectural Education - Basra University as a Study Case

Bilal Muhammad Zaman (Master Student)

Architectural Engineering Department Al-Nahrain University - Iraq

Abstract -The third millennium has witnessed a vast and rapidly evolving revolution of knowledge and technology that has brought about many local, regional and global changes and has contributed to defining the features of the field of education. These changes have forced educational institutions to respond to them and have led to adopt modern methods and strategies to cope with and keep up with these changes as well as providing the best in this field. This, in turn, has been reflected in the development of education, which does not stop because there are convictions that a real renaissance in any country comes only with a true educational renaissance. Good education leads to a good investment and a great renaissance. Therefore, thought is being given to changing educational systems and moving from traditional, teaching-based education as the main and sole source of information to education in which teaching roles are supervisory, directing, facilitating, assistant, and complementary to modern teaching strategies. Thus, the research sought to explore the possibility of using the Problem-Based Education Strategy (PBL) as an alternative strategy to what is used in education in the specific departments of Architecture Engineering - Basra University. There is a cognitive lack in determining whether the Problem-Based Education Strategy (PBL) can be used effectively in architectural education at Iragi universities in general and the University of Basra in particular. By highlighting the research problem, the objective of the research has been established, "Research seeks to explore the possibility of effectively using the Problem-Based Education Strategy (PBL) in architectural education. The achievement of the goal required that the theoretical framework be established, besides, in the light of the research hypothesis, which stated: "The Problem-Based Education Strategy (PBL) can be used effectively in architectural education and its effectiveness varies depending on the type of study." The research adopted an analytical descriptive approach based on a set of quantitative questionnaires, including members of the teaching staff of the Department of Architecture Engineering of the University of Basra, to verify the compatibility of this strategy with their vocabulary and their teaching experience. The research results almost varied the compatibility rates with the problem-solving hypotheses for study objectives provided for the study subjects within the curriculum, but over 50% according to academic vocabulary. Moreover, diagnosing several hypotheses that have very high compatibility rates above 60%, which confirms the possibility of using this learning strategy and solving problems for the cognitive objectives of that academic vocabulary. Furthermore, diagnosing several

Assistant Professor Dr. Nofal Joseph Rezko

Architectural Engineering Department Al-Nahrain University - Iraq

hypotheses that have very high compatibility rates of more than 60 percent, which confirms the possibility of using this learning strategy, and problem-solving for the cognitive objectives of that academic vocabulary. Besides, the researchers concluded that this strategy agreed with most of the academic vocabulary within the curriculum of the Department of Architecture - University of Basra. Also, the research concludes a set of recommendations, the most important of which was the possibility of relying on the problem-based learning strategy in architectural education, given the support demonstrated by the findings of the research for the PBL mechanisms and the verification of the cognitive objectives of the study.

Key words: learning - problem-solving strategy - architectural education - teaching.

Research problem: There is a cognitive lack in determining whether the problem-based learning strategy (PBL) can be used effectively in architectural education at Iraqi universities in general and Basra University in particular.

Research objective: The research seeks to investigate the possibility of using the problem-based learning strategy (PBL) effectively in architectural education.

1.INTRODUCTION

Learning is a human process aimed at helping students at all levels to acquire knowledge and science to achieve a comprehensive and integrated development of personality that affects all aspects of their development, including physical and mental development. Teachers' abilities play a key role in this through the creation of a climate, a suitable educational environment, and teaching methods that enhance the student's self-confidence and open the way for better educational achievement.

Thus, those involved in educational matters in all fields must undertake studies and research to learn about the latest strategies, methods, and teaching methodologies, especially those in which the student is an active participant within or outside the class. In addition, their role in the dissemination of scientific and technical culture, which has a particular role in the evaluation of student culture and thus of society in general, scientific culture has become an imperative for all as the centerpiece of progress and development and a component of public awareness in social, cultural and intellectual formation.

Considering one of the most important fields of knowledge: teaching methods and strategies, whereby those involved in teaching adopt interactive methods that make the student an active and essential participant in the educational process, besides, being thought-provoking and developing, especially as we desperately need to develop thinking when we ask to increase their ability to solve problems, especially as we live in a world where information changes and regenerates.

Accordingly, the research is concerned with reviewing the teaching strategies adopted globally and prevailing in education at the national level and focusing on one of the most important strategies for exploring the potential for architectural education. This strategy increases the

1. Conceptual framework

a. Problem concept

Prior to addressing problem-solving, we must recognize the problem primarily as a concept. The word "problem" is not new. It often hits our tongues whenever we face difficulty with a goal we seek to achieve. Students who cannot understand their lessons face a problem, thus, when a person has a goal to pursue, but is prevented from achieving obstacles that they cannot overcome, there is a problem. Thus, there are several definitions of the problem, including:

Salah Abu Asad, 2010, defines the problem as a new and distinctive situation facing an individual who does not have a solution ready in time. (Mosab Alwan, 2009) defined it as a situation to which an individual needs to be resolved by using his or her mind and dialogue to reach the desired solution, that is appropriate to the situation to which he or she has been subjected. (Faiz Dundish, 2003) defined it as every emergency that intercepts one or more of an individual's needs and requires a solution. For any educational situation, every situation that takes the quantitative or symbolic image, and stands as an obstacle to the student, making some attempts to reach the right solution to no avail, but it has not yet lost hope of achieving its goal.

Cronbach defined the problem, quoting from **(Fayez Dandash, 2003)**, who says, "Every situation is a problem for the individual when he needs to answer and he normally has no ready answer."

Ryan, 1999, defined the problem as a situation in which students feel that they are facing a situation that they may just be ignorant of answering, and they want to know the right answer. The whole curriculum has been structured in the form of problems, which means that the problemsolving method must be followed in teaching, and it may be in the form of subjects, some of which are taught by the teacher in the way of problem-solving. The teacher has an student's participation mainly in the course of study and becomes the focus of the educational and learning process.

Thus, the role of the professor is limited to assistance and supervision only, and accordingly, the research problem has been formulated, which is "There is a lack of knowledge in determining the possibility of using the PBL strategy effectively in architectural education in Iraqi universities." Thus, the aim of the research has been formulated, as the research seeks to explore the potential of using the problem-based learning strategy (PBL) effectively in architectural education. Achieving the goal required, building a theoretical framework, in light of the main research hypothesis, which states that "it is possible to use the problem-based learning strategy (PBL) effectively in architectural education, and its effectiveness varies according to the study vocabulary and stage"

important role to play in selecting and presenting the problem appropriate to the level of maturity of students, which is associated with the subject matter, in a way that raises their enthusiasm and willingness to solve, or to answer, since, without students' sense of the problem and desire to solve it, this method of teaching does not succeed.

b. Problem-solving strategy Concept

They are those operations or steps that the individual takes, using his mental knowledge to reach (the required solution to the problem) **(Hassan Ali Salama, 1995, pg. 289).**

There have been many definitions of the problemsolving concept according to the different schools to which the researchers belong, in addition to the different research topics, and there is no consensus among educators on the concept of problem-solving strategy and how to apply this method in school, daily life and the levels of its application. Views differ between the old and modern concepts of problem-solving and the aims of this method.

Dzurilla & Nezu (1980) define problem-solving as the conscious level of processing of seized information aimed at identifying and discovering or inventing solutions to the problem.

Anderson (1980:21) defines it as a series of goaloriented cognitive processes.

Dzurilla & Goldfried (1984:11) define problemsolving as a cognitive-behavioral process, whether apparent or implicit, where effective alternatives are based on learning with the problem situation, increase the likelihood of testing the most effective response among the primates. Besides, they identified the problem-solving strategy as a general adaptation strategy aimed at discovering effective solutions that contribute to facilitating and maintaining overall social efficiency.

e-ISSN: 2395-0056

p-ISSN: 2395-0072

Baron, 1989:7, defines the scientific method of problem-solving as employing several different strategies and skills using the principle of trying, and error to reach possible solutions by choosing one of the appropriate alternatives or solutions.

Also, in writing (How to Think), John Dewey provides an analysis of the mechanisms and paths of the human mind when one finds itself facing a particular problem in a confusing situation. Dewey sets out the functions of analytical thinking and the role of this type of thinking in removing the ambiguity surrounding the confusing situation or causing a satisfactory solution to the solution method.

Some educators define the problem-solving method as: "A method of scientific thinking based on conscious observation, experimentation, and information gathering so that the transition from the part to the whole (extrapolation) and from the whole to the part (conclusion) to reach an acceptable solution **(Al-Sakran 1989: 147).**

(Muslim, 22:1994) defines problem-solving as a vital activity carried out by a human being at various levels of complexity, as well as a duty or a request to decide on a subject.

Gagne sees that problem solving is a pattern of behavior governed by laws, a process in which the individual integrates (Concepts) and (Rules) from his previous knowledge to be rules at a higher level that enable him to solve problems. Janeh views problem solving as the most complex form of education (Dixson & Glover, 1984:18).

The tasks of learning to solve a problem generally involve a learning situation in which a student discovers a solution to a particular problem that usually allows many possible alternative responses or solutions, one or more of which may lead to an acceptable solution. That's why the problem-solving activities seem more complex than other educational activities. (Nashwati, 1997:452).

(Zaytoun, 1998: 51) defines problem-solving as an attitude based primarily on the application of previously learned knowledge, methods, and strategies for solving previously learned, so that these knowledge and methods are organized in a way that helps to apply them to an unfamiliar situation, which selects from the previously learned knowledge and acquired methods and strategies for resolving one situation to be applied in another.

(Mahmoud, 2001:24) identified the ability to solve problems as a set of structured steps to find appropriate and sound alternatives to the problem to which a person is subjected, intending to adapt him in the area of his work and the reality in which he/she lives. This method consists of taking one of the problems related to the subject of the study as its focus and starting point in the teaching of the subject by thinking about this problem and making the necessary procedures, collecting information and results, and then making appropriate proposals. The student has acquired scientific knowledge and has been trained in scientific thinking, which has led to the required development of his or her mental and practical skills (**Abu Jalala, 2001:105**).

George Polya was credited with considering problemsolving strategies as a teaching method, where teaching methods are defined as the art of invention or discovery, therefore, are general strategies that help solve problems where problem-solving is a creative activity that is not always successful. The method of teaching is not the performance of skills that must be applied correctly, ensuring success (Mohammed Kamel Mohamed Imran 2014).

The solution to the problem can also be defined as behavior-based primarily on the application of previously learned knowledge and methods and strategies for solving such knowledge and methods in such a way as to enable them to be applied to a previously unfamiliar situation so that they choose from the previously learned knowledge and acquired methods and strategies for resolving one situation to be applied in another. **(Zaytoun, 2003:283)**

According to Abdul Hadi, 2004: There may be innumerable problems in one's life, as in the student's case. There are problems related to the relationship of individuals with each other, problems relating to the understanding of perceptions, feelings, and emotions, and some of them relate to the realization of relationships and the acquisition and practice of skills, and others related to ethics. It can be said: Problem-solving requires scientific methods, whether direct or indirect, and the skill and capabilities to use the information to reach the desired solutions.

Thus, through submitting the previous definitions of a problem-solving strategy, it can be defined as "It searches for suitable alternatives to solve the problem faced by the individual for adaptation or to get rid of a specific problem, the researcher also defines a problem-solving strategy as a set of sequential steps to arrive at appropriate and correct alternatives to the problem facing the individual to adapt him in his environment and field of work, represented by thinking and organizing to achieve a specific objective"

c. Steps to Problem-Based Learning

Problem-solving steps and their nomenclature vary from world to world. Although they disagree, they agree that the problem-solving process involves not only one work but also several interrelated actions or phases that require an individual to proceed according to particular steps or stages. Some stages of problem-solving could be reviewed, the main steps and models are as follows:

1. John Dewey	One model that has had a strong impact in ingreasing the effectiveness and
1. John Dewey	One model that has had a strong impact in increasing the effectiveness and skill of problem-solving involves:
	1. Problem Presentation.
	2. Problem defining.
	3. Generate assumptions.
	4. Evaluate assumptions.
	5. Pick the most efficient assumption. (Al-Atari. (1999:61)
2. Robinson & Anderson	It suggests that a person's ability to solve the problem gradually improves
	over time where steps include:
	1. Reception (providing the person with information).
	2. Memory helps to solve the new problem.
	3. Examine the hypotheses and choose one of them. (Al-Nabulsi,
	1986:115)
3. (Bootzin) and (Patterson & Eisenberg),	1. Define and accurately identify the problem where the success of this step entails the success of other steps.
	2. Gathering information, accessing its sources, and exploiting the
	sources of the environment in which the individual lives, with a view
	to a better knowledge of oneself and available alternatives and choices.
	3. Generate and evaluate possible alternatives and solutions and form
	hypotheses on the potential outcomes of each alternative or
	selection.
	4. Selecting and applying a method of action, which is the practical
	methods and procedures that an individual is expected to exercise to
	control a problem.
	5. Evaluation of results to determine the extent to which the objectives
	have been achieved and their success in solving the problem in whole
	or in part. 6. Repeat the process where necessary if objectives are not achieved.
	(Bootzin, et al 1991), (Paterson & Eisenberg, 1983).
4. Kohler	Kohler believes that problem-solving is a process of mental foresight that
	goes through the following steps:
	1. Identify the problem.
	2. The individual is mentally conducting several possible solutions.
	3. One's Foresight to Think About the Solution.
5. George Polya	One of the most popular models that have had a significant impact on the teaching of mathematical problem solving includes four steps:
	1. Understand the problem.
	2. Develop a plan to solve the problem.
	3. Implementation of the plan.
	4. Solution review and validation (Ismail, Al-Amin, 2001:249-250).
6. Frederick Bell	1. Presenting the problem in general.
	2. Reformulation of the problem by procedural definition.
	3. Formation of alternative propositions and steps that are an
	appropriate way to deal with the problem.
	4. Testing the hypotheses and taking the steps to obtain a more suitable solution than the alternative solutions.
	5. Promote any of the most appropriate possible solutions or verify that
	one is correct. (Al-Najjar, Akram, 1999, 43).
7. Meyer	1. Translation: It requires linguistic knowledge that allows the students
	to understand the problem.
	2. Integration: The student integrates each sentence into a coherent
	representation and has special organizational knowledge and
	identification of problem-solving.
	3. Planning and follow-up: They require knowledge of strategies that

e-ISSN: 2395-0056

p-ISSN: 2395-0072

IRJET

www.irjet.net

e-ISSN: 2395-0056

p-ISSN: 2395-0072

Table 1 Problem Solving Steps (prepared by the researcher)

3- Practical study and conceptual framework vocabulary testing

First: conceptual framework Curriculum

1. Mechanisms have been developed to test the research hypothesis that states (Problem-based learning (PBL) strategy can be used effectively in architectural education, its effectiveness varies depending on the type of study type and stage) by testing the conceptual framework and adopting the steps of problem-based learning to turn the objectives of lessons into problems and then into searchable hypotheses. Thus, hypotheses were put forward for a questionnaire based on the educational process (Educational Body) of the Department of Architecture of the University of Basra to obtain data regarding the use of the problem-based learning strategy in the curriculum vocabulary through the hypotheses put forward for each problem and use their views in the development of the educational process.

2. Stages of problem-based learning (PBL)

Step 1: Feeling and gathering information about the problem: with the help of students, the teacher identifies a particular problem and the study begins with the definition of the nature and parameters of the problem. Teachers help students gather information about the problem for research by asking a range of questions, and students will preferably write down the information they have gathered in a special paper. The collection of information serves to determine the characteristics and nature of the problem in question.

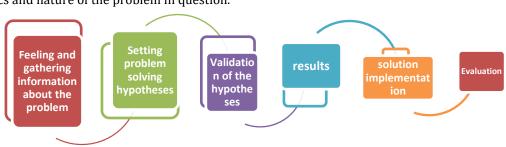
Step 2: Setting problem-solving hypotheses: The purpose here is a predictable, probable, or conceivable preliminary solution to the problem, the more the assumptions are, the more likely the solution will be. It is recommended to prioritize hypotheses as determined by students. The more clear and specific the hypothesis, the easier it is for the student to test its validity.

Step 3: Validation of the hypotheses: This requires conducting some activities and experiments to prove the validity or non-validity of certain hypotheses. The teacher may use logical proof (the use of contradiction or contrasting examples) to prove that some hypotheses are invalid.

Step 4: Results: If it is proven that one of the hypotheses provides a solution to the problem, it is used in the solution and formulated in a way that facilitates its use and interpretation, where it can be used in new situations. The solution is chosen through a discussion involving all.

Step 5: solution implementation: Students apply their findings to new situations both inside and outside the classroom environment, thus becoming the method of problem-solving within their intellectual stock.

Step 6: Evaluation: Evaluate the effectiveness and feasibility of the solution applied to the new problems.





Second: the study community

The study community consisted of the faculty members of the Department of Architecture at the University of Basra, and the current research raised several questions through a questionnaire based on the educational process (the teaching staff), which includes a set of hypotheses per objective of the curriculum vocabulary, which is converted to problems, and then researchable hypotheses by students to utilize the assessment results in formulating the architectural academic output through the use of the problem-based learning strategy (PBL) in the architectural curriculum vocabulary.

4- Analyzing the questionnaire of the faculty members

The point of view of the teaching staff was surveyed to demonstrate the problem-based learning strategy implementation in the architectural study.

First: the targeted study sample

The study was conducted among the faculty members of the Department of Architecture at the University of Basra. The proportion of responses (88%) of the total number of members of the teaching body, 17 of whom participated in the questionnaire, in addition, 2 of which were neglected for lack of seriousness in answering so that the total number of SPSS-analyzed questionnaires were (15).

Second: The questionnaire objective

The extent to which a problem-based learning strategy can be applied to curriculum vocabulary in architecture engineering departments according to the views of the teaching staff of the Department of Architecture Engineering, Basra University.

											1-Introducing the	l-What are the	One of the basics of architecture is the suitability for				-	
		The f	irst stage	Li	kert	scale	_		1 I		-		-					
			a st strage								student of new	fundamentals of	functionality, and the safety factor (structural					
Educ								₽			architecture to the	architecture and what	durability).					
atio								Ratio			basics of architecture	fields and scientific	The fields and specializations that are related to				2	2
Ē.											and its links to other	disciplines are	architecture are:		23	%	× 1	
											scientific fields.	associated with it?	Civil Engineering: It is concerned with civil	6 5	13 7%	\$46.7	2 2	×4
	Educational objectives	Possible problems	problem-solving hypotheses										buildings.				-	<u>i</u>
				2 0	Z		_	20					Interior design: It is concerned with interior design.					
study				Disaeres	Neutral	A oree	Result	2					Town planning: It is concerned with the planning of					
y				alv.	P	A gree	1	Final result					streets and roads.					
						l F		1					Hypothesis 2 -					
	1-Learning how to	1-What are the	There are appropriate ways to communicate, as		+	++	+	+					The basics of architecture are aesthetic expression,					
	express and	appropriate ways to	follows:										creativity, and economy.					
	communicate in	express and	Hypothesis 1-				~						the fields and specializations that are related to		2	2	0	
	English.	communicate with	1-using the vocal method through student-teacher				Agre						architecture are:	%n	20.0%	%46.7		2
	Lugitsit	others using English?	conversations where the teacher uses patterns of	%13	\$20.0	2223 2021	gree % 53.						-Urban design: It is concerned with the design of	ſ				5
		others using English?	-		F	F 6	33						streets.					
			grammatical sentences, and the student has to repeat				ω.						-Islamic architecture					
			them to be memorized and used in new contexts								2-Developing the	2-What are the things	2- Hypothesis 1-		+	+	+	
			fluently.								artistic taste of the new	that develop the	One of the things that are developing the taste of an					
-	2-The course activities		Hypothesis 2-				2				architecture student.	artistic taste of the new	architecture student is to learn about projects and				1 L L L %	one
English langu	include writing various		Use a notebook to record, repeat and periodically	0 %	%	%	gree %46.7	Agr		Arel		architecture student?	global experiences in architectural design on an	6.7	6.7%	%46.7	122	° .
shi	types of academic	2-How to write	review vocabulary and phrases.	6 5	\$333	%13 3 %46 7	64	ee 4		itec			ongoing basis and to look at their external and				~ s	67 gree
gug	articles, acquiring	various academic					12	Agree 45.00		ural			internal design.					2 <u>4</u>
Jage	advanced academic	articles and participate	2-Essay-writing skills can be acquired through:					%		Architectural design			Hypothesis 2 -		-		+	-8
	vocabulary, and	in group discussions?	Hypothesis 1-							g.			One of the things that are growing the taste of an		4	2		
	participating in group		Converting a text written in the mother tongue into	%1	%40.0	%26.7	Agree						architecture student is learning to choose colors and	%0 %0	46.7%	%33.3	0.00%	
	discussions.		the target language.	0 3	B	56	R					3-What are the general	architectural materials that suit the environment.		ľ			
											3-The student learned	principles of two-	3- Hypothesis 1-					
			Hypothesis 2-		+	++	_	4			the principles of two-	dimensional structure?	The general principles of 2D structure are:					
			~				- Ag				dimensional structure		-The point is the first of all shapes and has a position					
			Write a summary about a movie or book you've	» ×	%	8	Agree %:				using pencils.		in space that shows the spatial coordinates.			%	180	
			recently read.	0 33	620.0	%53.3 %53.3	% 53.3						-A line is an extension of a point in one direction,	10%	10%	66.7	% //	4
							ũ						length, direction, and location in space. The line is					S
	To raise the level of	How can the science	Hypothesis 1-		+	+			1				defined by a point at its beginning and a point at its					
	science, allow students	level of students be	The scientific level of the student can be raised by										end.					
	to enroll in science.	raised through math?	giving the student questions related to his				Ag						Hypothesis 2 -					
	increase the student's		specialization.	*	13.3%	8	Noc.						The general principles of 2D structure are:					
	knowledge of science,			5	3%	6.7	3 3	5					-the level.					
Ma	study after graduation,						17	arg					It is an extension of the line in one direction and has				5	
then	engage in life, and give							Per la					length, width, shape, surface, and location in space.	δ.		%	2	
Mathematic			Hypothesis 2 -		-	\square		53.3					The planes take different shapes determined by the	79/0	11 1%	653.3	70/	ree %53.3
83	an engineering student						~	3%					lines.				0.0	2
	the knowledge of basic		The scholarly level of a student can be raised by		-		gre						-the size is an extension of the plane in space and has					
	mathematics.		mathematics by learning to measure the areas of	240	33 1%	%20.0 %40.0	x %40						length, width, depth, and shape, contains space,					
			irregular forms and the ratio of the areas of different			PP	10.0						surface, and direction, and has a position in space.					
			shapes.						Ľ		•							



International Research Journal of Engineering and Technology (IRJET)e-ISSN: 2395-0056Volume: 08 Issue: 08 | Aug 2021www.irjet.netp-ISSN: 2395-0072

	IRJET V	/olume: 08	Issue: 08 Aug 2021		V	vw	w.i	rje	t.net		p-ISSN: 23	39	95.	-00)72	
			Hypothesis 2- The assimilation of things in nature and the sense of architectural space are developed through: -Perception of edges: the outer frame that defines shapes, and it may be two-dimensional or three- dimensional. -Perception of sizes: It distinguishes the space occupied by an object in the vacuum, and to paint it, the painter starts with the axis in the center of the object, and then draws the parts surrounding it -Understanding Relationships: It is drawing several shapes next to each other and seeing them as one uniting them together. -Distinguishing light and shadows: Shadow and light help to better understand the shape of objects or shapes.			Agree, strongly agree 33.3%			The aim is to introduce students to the various traditional building materials used locally and globally, with a focus on local building		Hypothesis 2 – Intuitive position: it depends on the immediate event and sudden realization, and not, as in science, on inference, proof, and rational research. Emotional empathy: the self is completely or partially mixed in the artistic work, and a kind of union and mixing always occurs between the viewer and the subject represented in his perception, contemplation, and listening. Hypothesis 1 – Bricks, concrete blocks, and stone. Bricks are characterized by thermal insulation and the ability to withstand any high compressive resistance, but it takes a longer time in construction and thus increases the cost. Concrete blocks give faster work,				Agree 53.3	
	 Introducing the new student to the basics of architecture and its connections with the rest of the various scientific fields. 	1-What are the basics of architecture and its connection with other scientific fields?	 Hypothesis 1- One of the basics of architecture is the suitability for functionality, and safety factor (structural durability). Among the fields and specializations that are related to architecture are: Civil Engineering: It is concerned with civil buildings. Interior design: It is concerned with interior appearance. 			Agree 53.3%		omiding materi	materials and associated construction (properties, linkages, and combinations of materials).	connected and mixed?	but their weight is large and the ability to transfer loads from the bricks is less. Bricks are bonded together with cement and sand mortar, with concrete blocks that are bonded with cement, sand, and stone, and cement and sand mortar are also mixed. Hypothesis 2- Thermistro and from structures					Agree 56.67
Principles of art and architecture	2-Developing the article taste of the new	2-What are the things that develop	Hypothesis 2- One of the basics of architecture is aesthetic expression, creativity, and economy. the fields and specializations that are related to architecture are: Urban design: It is concerned with the design of streets. Islamic architecture. 2- Hypothesis 1- Pausing (watching and meditating)			Agree 40.0%	Agree 50.00				Internation and ion structures The thermiston has a light weight, heat isolation, speed of operation, ease of carrying and cutting, but it is also weak in transporting loads. The iron structures are also characterized by their high strength to resist torque and strength and speed of completion, but they are very expensive. These materials are mixed Thermiston is attached with adhesive or it can be connected with cement and sand or plaster and sand. Also, iron structures are connected by welding or screws.				Agree	
	architecture student.	architectural artistic taste and develop skills?	Perception: The sense that we are in the face of a phenomenon, not a reality, where the aesthetic subject is visible rather than realistic.			Agree 53.3%		Computers	 Prepare students to handle computers and enhance their skills in line with the discipline 	1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	 Hypothesis 1 – Skills are enhanced by working on architecture programs such as the (3D Max and AutoCAD). 				Strongly agree	Agree 40.0%
	of architecture.	first stag	Hypothesis 2 – Architectural personal skills are enhanced by drawing projects designed by hand with two- dimensional and three-dimensional architectural programs. e result	45	5.10%	Strongly agree			3- Teaching the student how to deal with functional and symbolic design problems for projects with different goals and locations.	functional and symbolic design problems of projects	3- Hypothesis 1- One of the tools that bring the designer closer to the solution closest to objectivity is the studies stage, which is supposed to be characterized by clarity of the approach and accuracy of the data, which later helps to criticize and analyze the final product (the credibility of the output based on the data).				Strongly a	
Educatio	Educational goals	The see Possible problems	rond stage Problem-solving hypotheses			Likert scale St	The ratio				These tools keep us from the extreme limits (the designer's finite subjectivity on the one hand or reliance on previously tested circulating solutions - cloning - on the other). Therefore, on-site analysis and functional analysis are considered determinants				agree 40.0%	
Vocabulary	1-Teaching the student the axes of preparing analytical studies for the parts and	1-What steps should be taken before starting the project?	 Hypothesis 1- Studying the project program its elements, components, and purpose. Studies of the site and the environmental 	Dissorae Stronoly	Agree	Result Strongly ag rongly agree	lt				of any design and it applies to any design within any idea. Hypothesis 2 – The symbolic analysis is related to the designer's privacy and the possibility of conveying a message to the recipient, i.e. the meaning to be reflected in the design.				40.0% agree	
Architectural Desig	components of the project, starting with choosing the site and ending with the symbolism of the project.	Angelow to Val	and climatic effects on the project. Hypothesis 2 – 1- Studying similar examples similar projects. 2- Choosing the appropriate structural method. Studying the structural structure.			agree 40.0% 53.3% Strongly agree		Architectural	1-Introduce the student to the principles of design, projection, and perspective through 2D and 3D graphics, shadow projections, and the basic principles of an architectural and interior perspective painter.	principles adopted in design, projection, perspective (architectural, interior), and shadow	Hypothesis 1 – principles adopted in projection and the internal and external architectural perspective are: 1- All parallel lines meet at a certain point on the horizon. 2- 2- All the oblique lines meet at the vanishing point on the horizon line. Casting shadows in perspective When there is only one light source, all shadows in the image will be from that source only from the point of the light source Draw lines on the edges of the box or desired shape.				00./% agree	2
(g)	2-Teaching the student how to deal with the strong determinants of the proposed sites according to the function of each exercise.	2-Are there limitations that are dealt with before the design process? What is it and how is it dealt with?	2-Hypothesis 1 - 1- Topographical characteristics of the site. 2- The natural components of the site. Hypothesis 2 - Site Climatic characteristics. Urban site surroundings components. Building regulations and requirements.			46,7% agree 40,0% agree		ral drawing			 the one of the internation. Hypothesis 2 - the principles adopted in projection and the internal and external architectural perspective are: All vertical and horizontal lines remain unchanged. 2. The vertical lines converge further away from the eye of the beholder. The upper surfaces get smaller the closer they are to the horizontian line side surfaces get bigger the farther they are from the vanishing point. 				Agreed	6 agree



Volume: 08 Issue: 08 | Aug 2021

www.irjet.net

p-ISSN: 2395-0072

	IRJET Vol	lume: 08 Is	sue: 08 Aug 2021	ww	w	.ir	jet	t.n	et			p-ISSN: 23	9 5	5-()0 [.]	72	
	2-Introducing the student to the methods of architectural presentation and production, and mastering at least one	2-What are the methods of architectural presentation and production? How to reach the best way to	2-Hypothesis 1- Sketches, through artistic presentation Hypothesis 2- Digital or physical 3D models			66.7% agree	-					Hypothesis 2 - Using the color wheel and using the color triangle on the wheel, the colors are mixed to get consistent colors.				53.3% agree	
	method well. 1-Develop the student's	show the architecture?	1- Hypothesis 1 -			46.7% agree				1-The student learned to prepare the necessary details for each stage of the design to be clear when implementing.	1-How are the details prepared for each stage of implementation?	1-Hypothesis 1- Creating detailed tables for each stage, estimating the quantities, units of measure, and the time required for completion, each paragraph is entered with the other by making a work progress table.				45.7% agree	
	watercolors, posters, pastels, and oil colors.	oil, and watercolors, and pastel colors to achieve the best architectural output?	In oil colors, we initially draw the shape with charcoal or a pencil, and charcoal is better because there is no lead material and it interacts with water colors. Hypothesis 2- The best way to use watercolors is to do a light sketch of the board to define the broad color area, background, detail areas, and areas to be left with a white background. A starting layer of the details of the drawings can be colored in light degrees of color, and when they are dried we paint, this method shows nice shades of the painting and is beautiful when			Neutral 46.7% 60.0% agree	-	Catisfruction of building		2-The student learns	2-What are the	Hypothesis 2- During project implementation, individuals perform tasks, project progress information is communicated through regular team meetings, and it is worth noting that on any project, the project manager spends most of his time on this step. The project manager uses this information to maintain control over project direction by comparing progress reports with the project plan to measure the performance of project activities and to take corrective action as needed.				46.7% agree	
in the second se	2-Introducing the student to ceramic materials, sculpture, and mass.	2-How can a new architecture student sense mass?	Interstantes of the painting and is security with drawing flowers. There are several useful techniques for creating different effects with watercolors such as color overlapping, surface wetting, spraying 2. Hypothesis 1 – By using materials used for incarnation like cork and clay.			40.0% agree	48.89% agreed	st buildings I (solid system)		2-1 me student learns construction processes and methods.	construction processes and methods?	3- Hypothesis 1- Construction processes and methods Many construction processes and methods follow materials used for construction. For example, buildings or steel installations in which construction consists of ready steel clips that are mounted together with bolts. Hypothesis 2-				53.3% agreed	40.00% agree
	3-Identify the color wheel, components, divisions, readings, and means of implementation.	3-How are the colors from the color wheel used in free drawing?	Hypothesis 2- By making three-dimensional models through three- dimensional architectural programs. 3- Hypothesis 1- The colors are used from the chromatic circle, which consists of three main colors, which are red, yellow, and blue, and any other color formed by mixing the basic colors in different proportions.			33.3% agree 73.3% agree						Construction processes and methods Construction processes and methods for concrete structures, which are built from iron and concrete bars after forming their molds. The building or structural facilities may be built with load-bearing walls of bricks, concrete buildwith out of the material that is supported by a concrete foundation, or it may be just an installation as in prefabricated concrete buildings. Thus, the operations vary according to the building material and the type of constructor. It has structural systems of solid, structural, and veneer.				33.3% agreed	
	3-The student learns the foundations and their details.	3- What are the types of foundations and their details?	3-Hypothesis 1 - types of foundations The separate or single foundations are square. rectangular, and circular in shape, it has a specific area (L * W) and is implemented to carry only one column. Common Soundations, which are foundations bearing two or more columns, and are often shaped like a trapezoid or a rectangle			53.3% agrood				6- The student learned brick floors and ceilings (Al-Aqdah).	6-What are the other ways of roofing spaces other than reinforced concrete systems?	6- Hypothesis 1- Aqdah ceiling. Sandwich panel ceilings (a modern method that requires sections of iron under the sandwich to be strong) Hypothesis 2- 1- Wooden floors and ceilings. 2- 2- Structural ceilings.				neutral 33.3% ag	
			 Hypothesis 2 - Other types of foundations 1. Strip foundations: They are longitudinal foundations for carrying walls, fences, and others. 2. Mat foundations: It is a single base that bears loads of the installations, whether it is structural, bearing walls, or joints 3-columns of foundations: There are different types and shapes of them, and they are classified according to the materials into reinforced concrete piles, iron (rsee) piles, wood piles, and others, and they are classified according to the method of implementation into drilling methods and piles. 			46.7% agree	-			7- The student learned reinforced concrete floors and ceilings.	7- What are the types of reinforced concrete floors and ceilings, and what are the advantages and disadvantages of each type?	3- Spiral roofs. 7- Hypothesis 1- Types of reinforced concrete floors and ceilings, their advantages and disadvantages: 1-Beam lab: a floor with bridges underneath, which can reduce its thickness and have good resistance to power loads, but due to the presence of bridges, the dead load and the cost increases, and the method of implementation is more difficult than others in terms of building the mold. 2-Flute slab: A type of ceiling or floor that does not contain bridges, but it is solled (flute slab) characterized by being suitable for large spaces and the ease of forming molds for them, but its thickness is slightly greater than the first type.				oe Agree	
	 The student learns how to bend bricks. 	of brick binding?	 4-Hypothesis 1 - There are several ways to bond the bricks: English bond German bond (Flemish bond). It is divided into an even and odd German bond. Bonding via kerosene. Hypothesis 2 - There are several ways to bond the bricks: hollow bond Garden wall bond. Pattern bond. 			40.0% agree Agree						Hypothesis 2- 1-Ribbed ceilings or floors (waffle slab). These ceilings are used for large spaces and when the live loads are relatively high, and they work from small linetis three times their height and width. The existing voids are used for the passage of pipelines and ducts for service channels. 2-Concrete ceiling or floor with metal lintels. It consists of a reinforced concrete block (12-15) cm thick, carried by metal lintels into an (I) segment. This floor is very similar to ageedah.				Agree	
	 The student learned to roof the holes in the brick walls. 		Roofing openings in walls This is done by making a concrete parapet that protrudes from the face of the wall towards the outside at a certain distance. The openings are roofed by making a bridge over the opening and covered with iron. Hypothesis 2- By placing sections of iron, such as a section, L or L			53.3% noutral not				S- The student learns materials for finishes resistant to environmental factors in ceilings (surfacing).	2-What are the materials that resist environmental factors in flattening?	8-Hypothesis 1- Materials that resist environmental factors in flatness. Many materials are used for flattening, including flancott, tar, iso cam, polyethylene (mylon), dry soil, sand, and sometimes Kashi mosaic. Hypothesis 2 – The materials that are resistant to environmental furgers in flatnesize as cold diascort.				40.0% agree 53.3% h	
			to make the bridge and build it over it. Wood clips can also be used.			utral						factors in flattening are cold flancott.				Neutral	



IRJET Volume: 08 Issue: 08 | Aug 2021

www.irjet.net

p-ISSN: 2395-0072

	IKJET										
	1-The student identified	1-What are the most	1- Hypothesis 1 -						2-The student learns the	2-What are the basic	_
	the most prominent	prominent features and	1-Egyptian architecture in its oldest eras is						basic design principles,	2-what are the basic design principles and	т
	qualities,	architectural	characterized by simplicity, immensity, and grandeur						processes, and factors	processes involved in	1.
	characteristics, and	characteristics of	-						involved in the design process.	the design process?	in co
	architectural and urban characteristics of the	ancient Egyptian architecture and the	spirit of simplicity. This simplicity was coupled with beauty and harmony as well as with extensive				8				re
Hist	Mesopotamia	architecture and the	science of construction engineering, calculating				0% a				in
jõ.	civilization and the Nile	Mesopotamia?	pressure, the resistance of objects, and other				groe				di 2-
fAn	Valley.		conditions of architecture.								3.
chite			2-The Egyptians turned a new direction, which is to								id
Aure			taste nature, life, and movement, and we can see that								H pi
I (A			new direction in their buildings and statues.								
Cien			Hypothesis 2 – 1-The Egyptian architecture is distinguished by the					Z			
E			establishment of spacious halls and tall columns, and					Neutral 36.67%			
ptiam			they resorted to making the central columns much					36.6	3-Teaching the student	3- How can sound	
and			higher than the side columns, and as a result, the					7%	to apply logic for a purpose that enables	conclusions and inferences be reached	S th
Meso			ceiling on the sides was lower than in the middle.						him to think clearly and	in the design process?	
potan			Thus, light enters through the vents, and that light is				4		reach sound conclusions		
History of Architecture I (Ancient Egyptian and Mesopotanian) Architecture)			very bright at the vents, and then spreads to the rest of the temple.				40.0% Neutral		and inferences to avoid improper and erroneous		
Arch			2-The most important features of the architecture,				Neut		thinking in his design		
litect			the increase in the thickness of the supernatural				ral		work.		
ure)			walls and their inclination to the interior from above.								
			The walls were built with a thickness that was lower								
			in width as the construction rose, so that the surface								
			of the wall remained perpendicular and the outer surface became tilted, increasing the strength and								
			stability of the wall.								Н
	1-Making the student	1-What is architectural	1- Hypothesis 1-	\vdash	-	+	-	┢			S
5	aware of what	design? What are the	Architectural design is one of the technical means								th 1-
gic a	architectural design is	specializations that	that are used in creating the first designs for				neutral				d
Logic and Design methodology	and the multiple	affect the design	architectural facilities, whether for housing or				ral	41.1			to ac
sign	disciplines and subjects that play an important	process?	commercial and professional use.					1% a			2.
meth	role in the design		Hypothesis 2 -	H		+	+	line (so
lodol	process.		Architectural design is a set of stages that depend on				Ne	-			si ac
0go			drawing and planning to formulate ideas and images				Neutral				3.
			used in establishing the art of architecture.								a
	Study the impact of	What are the effects of	Hypothesis 1-		Т						H
	forces on objects so that	force on objects? The	The effect of force on objects is either concentrated				46.				Ъ
e		force on objects? The					46.7% aį				bi co
engino	forces on objects so that the student of architecture can learn about the analysis and	force on objects? The forces affecting the elements of the installations are	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using				46.7% agree	Net	2- Columns in concrete	2-What is the function	bi co
enginœring 1	forces on objects so that the student of architecture can learn about the analysis and composition of the	force on objects? The forces affecting the elements of the installations are analyzed and	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to size and cosine and using numerical methods in the analysis.				46.7% agree	Neutral 4	2- Columns in concrete structural structures.	of columns in concrete	bi co ir R
engineering mecha	forces on objects so that the student of architecture can learn about the analysis and	force on objects? The forces affecting the elements of the installations are	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using					Neutral 43.33%			bi ir R It
engineering mechanics	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The shant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount					Neutral 43.33%		of columns in concrete structures, and what	bi cc ir R It st lc
engineering mechanics	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study their balance, stability,	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to size and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics					Neutral 43.33%		of columns in concrete structures, and what	br cc ir R It st lc th
engineering mechanics	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The shant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount				46.7% agree 53.3% neutral	Neutral 43.33%		of columns in concrete structures, and what	bi co ir R It st lo th do
engineering mechanics	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study their balance, stability, and severity under stability, and severity under the influence of forces.	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to size and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics					Neutral 43.33%		of columns in concrete structures, and what	br cc ir R It st lo th do th
engineering mechanics	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study their balance, stability, and sevenity under the influence of forces. 1-To broaden the student's awareness of	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of thesi impact are determined under the influence of the force? How have human	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1- Hypothesis 1 – Freedom is that a person has the power, authority,					Neutral 43.33%		of columns in concrete structures, and what	br cc ir R It st lo th do th
engineering mechanics	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study their balance, stability, and severity under stability, and severity under the influence of forces.	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? 1-What's freedom?	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1- Hypothesis 1 –				53.3% neutral	Neutral 43.33%		of columns in concrete structures, and what	br cc ir R It st lo th do th
engineering mechanics	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the element of the installations, and study their balance, stubility, and severity under the influence of forces. 1-To broaden the student's awareness of information about	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? 1-What's freedom?? How have human right been in the	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to size and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1. Hypothesis 1 – Freedom is that a person has the power, authority, right, and the authority to act, speak or think as he wants without any contols or limit. The civilizations of ancient Iraq and other civilizations				53.3% neutral	Neutral 43.33%		of columns in concrete structures, and what	br cc ir R It st lo th do th
engineering mechanics	forces on objects so that the student of architecture can learn about the analysis and composition of the forces afflecting the elements of the installations, and study their balance, stability, and severity under the influence of forces. 1-To broaden the student's awareness of information about freedom and to learn about the history of freedoms, including	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? 1-What's freedom? How have human right been in the civilizations of ancient	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1- Hypothesis 1 – Freedom is that a person has the power, authority, right, and the authority to act, speak or think as he wants without any controls or limits. The civilizations of ancient I rag and other civilizations were concerned with human rights, as the first					Neutral 43.33%		of columns in concrete structures, and what	br cc ir R It st lo th do th
engineering mechanics	forces on objects so that the student of architecture can learn about the analysis and composition of the forces afflecting the elements of the installations, and study their balance, stability, and sevenity under the influence of forces. 1-To broaden the student's awareness of information about freedom and to learn about the history of	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the extent of their impact are determined under the influence of the force? 1-Whar's freedom? How have human right been in the civilizations of ancient Iraq and other	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to size and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1. Hypothesis 1 – Freedom is that a person has the power, authority, right, and the authority to act, speak or think as he wants without any contols or limit. The civilizations of ancient Iraq and other civilizations				53.3% neutral	Neutral 43.33%		of columns in concrete structures, and what	br cc ir R It st lo th do th
engineering mechanics	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the element of the installations, and study their balance, subality, and severity under the influence of forces. 1-To broaden the student's avareness of information about freedoms, including men who have	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the extent of their impact are determined under the influence of the force? 1-Whar's freedom? How have human right been in the civilizations of ancient Iraq and other	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2- Sometimes: the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics.				53.3% neutral	Neutral 43.33%		of columns in concrete structures, and what	br cc ir R It st lc th dd th T
	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the element of the installations, and study their balance, subality, and severity under the influence of forces. 1-To broaden the student's avareness of information about freedoms, including men who have	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the extent of their impact are determined under the influence of the force? 1-Whar's freedom? How have human right been in the civilizations of ancient Iraq and other	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to size and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1- Hypothesis 1 – Freedom is that a person has the power, authority, right, and the authority to act, speak or think as he wants without any controls or limits. The civilizations of ancient Iraq and other civilizations were concerned with human rights, as the first written laws in the history of humanity appeared there on the impact of customs and traditions.				53.3% neutral	Neutral 43.33%		of columns in concrete structures, and what	br cc ir R It st lc dc dt th dt T
	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the element of the installations, and study their balance, subabity, and severity under the influence of forces. 1-To broaden the student's avareness of information about freedoms, including men who have	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the extent of their impact are determined under the influence of the force? 1-Whar's freedom? How have human right been in the civilizations of ancient Iraq and other	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics.				53.3% neutral 40.0% Neutral 40	143.33%		of columns in concrete structures, and what	br cc ir R It st lc dc dt th dt T
	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the element of the installations, and study their balance, subabity, and severity under the influence of forces. 1-To broaden the student's avareness of information about freedoms, including men who have	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the extent of their impact are determined under the influence of the force? 1-Whar's freedom? How have human right been in the civilizations of ancient Iraq and other	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to size and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1- Hypothesis 1 – Freedom is that a person has the power, authority, right, and the authority to act, speak or think as he wants without any controls or limits. The civilizations of ancient Iraq and other civilizations were concerned with human rights, as the first written laws in the history of humanity appeared there on the impact of customs and traditions.				53.3% neutral 40.0% Neutral 40	143.33%		of columns in concrete structures, and what	br cc ir R It st lc dc dt th dt T
	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the element of the installations, and study their balance, subabity, and severity under the influence of forces. 1-To broaden the student's avareness of information about freedoms, including men who have	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the extent of their impact are determined under the influence of the force? 1-Whar's freedom? How have human right been in the civilizations of ancient Iraq and other	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics.				53.3% neutral 40.0% Neutral 40	143.33%		of columns in concrete structures, and what	br cc ir R It st lc dc dt th dt T
	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study their balance, stability, and severity under the influence of forces. 1-To broaden the student's awareness of information about freedom; including men who have advocated freedom.	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? How have human right been in the civilizations of ancient Laq and other civilizations?	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1- Hypothesis 1– Freedom is that a person has the power, authority, right, and the authority to act, speak or think as he wants without any controls or limits. The civilizations of ancient Iraq and other civilizations were concerned with human rights, as the first written laws in the history of humanity appeared there on the impact of customs and traditions. Hypothesis 2– Freedom is the possibility of an individual without any reparation, condition, or external pressure to make a decision or to determine one of several existing possibilities. Law, justice, and freedom from the fundamentals of ancient Iraqi thought.				53.3% neutral 40.0% Neutral 40	Neutral 43.33% 35.00% Neutral		of columns in concrete structures, and what	br cc ir R It st lc dc dt th dt T
engineering mechanics Human rights and democracy	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the element of the installations, and study their balance, subabity, and severity under the influence of forces. 1-To broaden the student's avareness of information about freedoms, including men who have	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the extent of their impact are determined under the influence of the force? 1-Whar's freedom? How have human right been in the civilizations of ancient Iraq and other	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics.				53.3% neutral 40.0% Neutral 40.00% agree	143.33%		of columns in concrete structures, and what	br cc ir R It st lc dc dt th dt T
	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study their balance, stability, and sevenity under the influence of forces. 1-To broaden the student's awareness of information about freedoms, including men who have advocated freedom. 2-explaining to the student the democracy meaning, where the	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? How have human right been in the civilizations of ancient Iraq and other civilizations? 2-What is democracy? Was democracy?	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics.				53.3% neutral 40.0% Neutral 40.00% agree	143.33%		of columns in concrete structures, and what	br cc ir R It st lc dc dt th dt T
	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study their balance, stability, and severity under the influence of forces. 1. To broaden the student's avareness of information about freedoms, including men who have advocated freedom. 2. explaining to the student the democracy meaning, where the term came from, where	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? 1. What's freedom?? 1. What's freedom?? 1. What's freedom?? 1. What's freedom?? 1. What's freedom?? 1. What's freedom?? 1. What's freedom?? 2. What is democracy? Was democracy? Was democracy?	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics.				53.3% neutral 40.0% Neutral 40	143.33%	sbuctural sbuctures.	of columns in concrete structures, and what are their types? -How to install cutouts in structural	brock iri R It It It It It It It It It It It It It
	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study their balance, stability, and sevenity under the influence of forces. 1-To broaden the student's awareness of information about freedoms, including men who have advocated freedom. 2-explaining to the student the democracy meaning, where the	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? How have human right been in the civilizations of ancient Iraq and other civilizations? 2-What is democracy? Was democracy?	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics.				53.3% neutral 40.0% Neutral 40.00% agree	143.33%	structural structures.	of columns in concrete structures, and what are their types? 3-How to install	brock iri R It st ic du du th H T T T er
	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study their balance, stability, and severity under the influence of forces. I-To broaden the student's awareness of information about feedoms, including men who have advocated freedom.	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? How have human right been in the civilizations of ancient Laq and other civilizations? 2.What is democracy? Was democracy? implemented in its conrect and integrated form after what was called for by the world's constitutions	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics.				53.3% neutral 40.0% Neutral 40.00% agree	143.33%	structural structures.	of columns in concrete structures, and what are their types? -How to install cutouts in structural	brock iii R Int statist de de de the T T T r er er er
	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the influence of forces. 1-To broaden the student's avareness of information about freedoms, including men who have advocated freedom.	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? How have human right been in the civilizations of ancient Iraq and other civilizations? 2What is democracy? Was democracy? Was democracy concert and integrated form after what was called for by the word's constitutions and the Charter of the	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to size and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1- Hypothesis 1 – Freedom is that a person has the power, authority, right, and the authority to act, speak or think as he civilizations of ancient Iraq and other civilizations were concerned with human right, as the first written laws in the history of humanity appeared there on the impact of customs and traditions. Hypothesis 2 – Freedom is the possibility of an individual without any reparation, condition, or external pressure to make a decision or to determine one of several existing possibilities. Law, justice, and freedom from the fundamentals of ancient Iraqi thought. 2- Hypothesis 1 – Democracy is a form of government in which all eligible citizens participate equally - directly or through elected representatives - in proposing, developing, and introducing laws. Hypothesis 2 –				53.3% neutral 40.0% Neutral 40.00% agree 33.3% neutral	143.33%	structural structures.	of columns in concrete structures, and what are their types? -How to install cutouts in structural	H by cc in response of the second sec
	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study their balance, stability, and severity under the influence of forces. I-To broaden the student's awareness of information about feedoms, including men who have advocated freedom.	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? How have human right been in the civilizations of ancient Laq and other civilizations? 2.What is democracy? Was democracy? implemented in its conrect and integrated form after what was called for by the world's constitutions	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to size and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1- Hypothesis 1 – Freedom is that a person has the power, authority, right, and the authority to act, speak or think as he civilizations of ancient Iraq and other civilizations were concerned with human right, as the first written laws in the history of humanity appeared there on the impact of customs and traditions. Hypothesis 2 – Freedom is the possibility of an individual without any reparation, condition, or external pressure to make a decision or to determine one of several existing possibilities. Law, justice, and freedom from the fundamentals of ancient Iraqi thought. 2- Hypothesis 1 – Democracy is a form of government in which all eligible citizens participate equally - directly or through elected representatives - in proposing, developing, and introducing laws. Hypothesis 2 –				53.3% neutral 40.0% Neutral 40.00% agree	143.33%	structural structures.	of columns in concrete structures, and what are their types? -How to install cutouts in structural	bi cc iii If If If If If If If If If If If If If
	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study their balance, stability, and severity under the influence of forces. 1-To broaden the student's avareness of information about freedom, and to learn about the history of freedom, including men who have advocated freedom. 2-explaining to the student the democracy meaning, where the term came from, where the first democracits systems were applied.	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? How have human right been in the civilizations of ancient Iraq and other civilizations? 2What is democracy? Was democracy was democracy was democracy implemented in its correct and integrated form after what was called for by the United Nations?	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1- Hypothesis 1 – Freedom is that a person has the power, authority, right, and the authority to act, speak or think as he wants without any controls or limits. The civilizations of ancient Iraq and other civilizations were concerned with human rights, as the first written laws in the history of humanity appeared there on the impact of customs and traditions. Hypothesis 2 – Freedom is the possibility of an individual without any reparation, condition, or external pressure to make a decision or to determine one of several existing possibilities. Law, justice, and freedom from the fundamentals of ancient Iraqi thought. 2- Hypothesis 1 – Democracy is a form of government in which all eligble citizens participate equally - directly or through elected representatives - in proposing, developing, and introducing laws. Hypothesis 2 – Democracy: is the rule of the people				53.3% neutral 40.0% Neutral 40.00% agree 33.3% neutral	143.33%	structural structures. 3- Walls (partitions) in structural structures.	of columns in concrete structures, and what are their types?	bit cc iri R It is is is is is is is is is is is is is
Human rights and democracy	forces on objects so that the student of architecture can learn about the analysis and composition of the forces afflecting the elements of the installations, and study their balance, stability, and severity under the influence of forces. 1-To broaden the student's awareness of information about freedoms, including men who have advocated freedom. 2-explaining to the student the democracy meaning, where the student the democracic systems were applied, and constitutions calling for democracy	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? How have human right been in the civilizations of ancient Iraq and other civilizations? 2What is democracy? Was democracy Was democracy Was democracy cullication in its correct and integrated form after what was called for by the United Nations?	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to size and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1- Hypothesis 1 – Freedom is that a person has the power, authority, right, and the authority to act, speak or think as he civilizations of ancient Iraq and other civilizations were concerned with human right, as the first written laws in the history of humanity appeared there on the impact of customs and traditions. Hypothesis 2 – Freedom is the possibility of an individual without any reparation, condition, or external pressure to make a decision or to determine one of several existing possibilities. Law, justice, and freedom from the fundamentals of ancient Iraqi thought. 2- Hypothesis 1 – Democracy is a form of government in which all eligible citizens participate equally - directly or through elected representatives - in proposing, developing, and introducing laws. Hypothesis 2 –				53.3% neutral 40.0% Neutral 40.00% agree 33.3% neutral neutral	143.33% 35.00% Neutral	structural structures.	of columns in concrete structures, and what are their types? -How to install cutouts in structural	bit cc iri R It is is is is is is is is is is is is is
Human rights and democracy	forces on objects so that the student of architecture can learn about the analysis and composition of the forces afflecting the elements of the installations, and study their balance, stability, and severity under the influence of forces. 1-To broaden the student's awareness of information about freedom, and to learn about the history of freedom, including men who have advocated freedom. 2-explaining to the student the democracy meaning, where the term came from, where the first democracy the student democracy the student and constitutions calling for democracy were applied.	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? How have human right been in the civilizations of ancient Laq and other civilizations of ancient civilizations? 2-What is democracy? Was democracy implemented in its correct and integrated form after what was called for by the world's constitutions and the Charter of the United Nations?	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1 - Hypothesis 1 – Freedom is that a person has the power, authority, right, and the authority to act, speak or think as he wants without any controls or limit. The civilizations of ancient I raq and other civilizations were concerned with human rights, as the first written laws in the history of humanity appeared there on the impact of customs and traditions. Hypothesis 2 – Freedom is the possibility of an individual without any reparation, condition, or external pressure to make a decision or to determine one of several existing possibilities. Law, justice, and freedom from the fundamentals of ancient I raqi thought. 2 - Hypothesis 1 – Democracy is a form of government in which all eligible citizens participate equally - directly or through elected representatives - in proposing, developing, and introducing laws. Hypothesis 1- Democracy: is the rule of the people 1 - Hypothesis 1- The foundations of concrete buildings are mats and the columns are connected with them by making the				53.3% neutral 40.0% Neutral 40.00% agree 33.3% neutral neutral	143.33% 35.00% Neutral	stuctural stuctures. 3- Walls (partitions) in structural stuctures. 4-Doors - their types	of columns in concrete structures, and what are their types?	biorection of the second secon
Human rights and democracy	forces on objects so that the student of architecture can learn about the analysis and composition of the forces affecting the elements of the installations, and study their balance, stability, and severity under the influence of forces. 1-To broaden the student's avareness of information about freedom, including men who have advocated freedom. 2-explaining to the student the democracy meaning, where the term came from, where the first democratic systems were applied. 1-The student learned the basics of structural buildings and how to connect reinforced	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? I-What's freedom? How have human right been in the civilizations of ancient Iraq and other civilizations? 2What is democracy? Was democracy? Was democracy? Was democracy? Was democracy? Inplemented in its correct and integrated form after what was called for by the United Nations?	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1- Hypothesis 1 – Freedom is that a person has the power, authority, right, and the authority to act, speak or think as he wants without any controls or limits. The civilizations of ancient Iraq and other civilizations were concerned with human rights, as the first written laws in the history of humanity appeared there on the impact of customs and traditions. Hypothesis 2 – Freedom is the possibility of an individual without any reparation, condition, or external pressure to make a decision or to determine one of several existing possibilities 1. Democracy is a form of government in which all eligble citizen spaticipate equally - directly or through elected representatives - in proposing, developing, and introducing laws. Hypothesis 2 – Democracy: is the rule of the people 1- Hypothesis 1- The foundations of concrete buildings are mats and the columns are connected with them by making the longitudinal iron of the columns linked with the				53.3% neutral 40.0% Neutral 40.00% agree 33.3% neutral neutral	143.33%	3- Walls (partitions) in structural structures. 4-Doors - their types with details of their	of columns in concrete structures, and what are their types? -How to install cutouts in structural installations?	bioconstants of the second sec
	forces on objects so that the student of architecture can learn about the analysis and composition of the forces afflecting the elements of the installations, and study their balance, stability, and severity under the influence of forces. 1-To broaden the student's awareness of information about freedom, and to learn about the history of freedom, including men who have advocated freedom. 2-explaining to the student the democracy meaning, where the term came from, where the first democracy the student democracy the student and constitutions calling for democracy were applied.	force on objects? The forces affecting the elements of the installations are analyzed and synthesized, and the balance, gravity, and extent of their impact are determined under the influence of the force? How have human right been in the civilizations of ancient Laq and other civilizations of ancient civilizations? 2-What is democracy? Was democracy implemented in its correct and integrated form after what was called for by the world's constitutions and the Charter of the United Nations?	The effect of force on objects is either concentrated or distributed, in both cases, it is either vertical or tilted at a certain angle. The slant force is calculated by analyzing it to sine and cosine and using numerical methods in the analysis. Hypothesis 2 – Sometimes the member affected by the forces is drawn and then cut into small parts and the amount of each force is calculated using the laws of statics mechanics. 1 - Hypothesis 1 – Freedom is that a person has the power, authority, right, and the authority to act, speak or think as he wants without any controls or limit. The civilizations of ancient I raq and other civilizations were concerned with human rights, as the first written laws in the history of humanity appeared there on the impact of customs and traditions. Hypothesis 2 – Freedom is the possibility of an individual without any reparation, condition, or external pressure to make a decision or to determine one of several existing possibilities. Law, justice, and freedom from the fundamentals of ancient I raqi thought. 2 - Hypothesis 1 – Democracy is a form of government in which all eligible citizens participate equally - directly or through elected representatives - in proposing, developing, and introducing laws. Hypothesis 1- Democracy: is the rule of the people 1 - Hypothesis 1- The foundations of concrete buildings are mats and the columns are connected with them by making the				53.3% neutral 40.0% Neutral 40.00% agree 33.3% neutral neutral	143.33% 35.00% Neutral	3- Walls (partitions) in structural structures. 4-Doors - their types with details of their	of columns in concrete structures, and what are their types?	brocci iri R Int statistic del del del the T T T eri eri eri eri eri eri

2-The student learns the							_
	2-What are the basic	2- Hypothesis 1-					
basic design principles,	design principles and	The processes involved in the design process					
processes, and factors	processes involved in	1-Attracting and collecting information, which is the					
involved in the design	the design process?	initial stage for any architectural design and					
process.		construction project, as this stage requires defining				33	
		requirements and preparing studies for each project,				.3%	
		including the problem and the variables in its various				agre	
		dimensions.				6	
		2-Analysis of the information collected.					
		3-Creating new ideas, after reviewing previous					
		ideas.					
		Hypothesis 2 – The processes involved in the design		_	_	_	-
		process					
		 Draw and create a plan for the initial 				46.7%	
		solutions to the problem.				1%	
						auge	
		Comparing and evaluating alternatives,					
		and then starting the project.				_	
3-Teaching the student	3- How can sound	 Hypothesis 1 – 					
to apply logic for a	conclusions and	Sound conclusions and inferences can be reached in					
purpose that enables	inferences be reached	the design work through					
him to think clearly and	in the design process?	 Relying on discovery in dealing with the 					
reach sound conclusions		environment surrounding the architectural					
and inferences to avoid		designer, which helps to develop a set of					
improper and erroneous		distinctive designs, which suit the				8	
thinking in his design		community and the surrounding				.7% a	
work.		environment, and fit the place in which the				auât	
		design will be applied.					
		2. Helping the architectural designer to					
		develop his style of making decisions by					
		choosing the colors, lines, and shapes of					
		the architectural design, which are					
		appropriate for the architectural design.					
		Hypothesis 2 –	H			-	H
		Sound conclusions and inferences can be reached in					
		the design work through					
		1-Supporting and developing the architectural					
		designer's ability to notice the details of the design,				s	
		to achieve the final result of the design in a correct,				Strongly	
		accurate, and error-free manner.				gly a	
		 Attention to cultural thought and social thought in 				agree	
		2- Artennon to cultural mought and social mought in societies; That is, the architectural design must be				6	
						7%	
		similar to the nature of these ideas to be readily					
		accepted by the population.					
		3- Attention to show the aesthetic details of					
		architecture, to preserve it throughout history.					
							_
							1
		Hypothesis 2 - The foundations of concrete					T
		Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are				Agr	
		Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal				Agree	
		Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base.				Agree	
2- Columns in concrete	2-What is the function	Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2- Hypothesis 1-				Agree	
2- Columns in concrete structural structures.	of columns in concrete	Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebur for the base. 2. Hypothesis 1- Reinforced concrete columns:				Agree	
	of columns in concrete structures, and what	Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebur for the base. 2. Hypothesis 1. Resinforced concrete column:: It is one of the most important elements of structural				Agree	
	of columns in concrete	Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the				Agree	
	of columns in concrete structures, and what	Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebur for the base. 2. Hypothesis 1. Resinforced concrete column:: It is one of the most important elements of structural				Agree	
	of columns in concrete structures, and what	Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the				Agree	
	of columns in concrete structures, and what	Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebox for the base. 2. Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from				Agree	
	of columns in concrete structures, and what	Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and for there to the soil. The dimensions of the columns					
	of columns in concrete structures, and what	Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Resinforced concrete column: It is one of the most important elements of structural structures and is responsible for transferring the loads from the rood and beams to the bases and from there to the scil. The dimensions of the columns depend on the loads on them and their structural					
	of columns in concrete structures, and what	Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2 – Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the base and from there to the soil. The dimensions for the columns depend on the loads on them and their structural design, and the dimensions of the columns decrease				5 53.3%ag	
	of columns in concrete structures, and what	Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns deepend on the loads on them and their structural deepend on the loads on them and their structural the kings, and the dimensions of the columns decrease the higher we go.					
	of columns in concrete structures, and what	Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2- Hypothesis 1- Resinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns depend on the loads on them and their structural design, and the dimensions of the columns decrease the higher we go. Types of columns:				5 53.3%ag	
	of columns in concrete structures, and what	Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns depend on the loads on them and their structural design, and the dimensions of the columns: decrease the higher we go. Types of columns: 1. Square columns and the column sector is				5 53.3%ag	
	of columns in concrete structures, and what	Hypothesis 2 – The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2 - Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the base and from these to the soil. The dimensions of the columns depend on the loads on them and their structural design, and the dimensions of the columns decrease the higher we go. Types of columns: 1 - Square columns and the column sector is square and iron is distributed in them				5 53.3%ag	
	of columns in concrete structures, and what	Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2- Hypothesis 1- Resinforced concrete columns: It is one of the most important elements of structural structures: and is responsible for transferring the loads from the rood and beams to the bases and from there to the soil. The dimensions of the columns degend on the loads on them and their structural design, and the dimensions of the columns decrease the higher we go. 1- Square columns: 1- Square columns and the column sector is square and iron is distributed in theme evenly, and iron is distributed in theme. 2- Rectangular columns and the column				5 53.3%ag	
	of columns in concrete structures, and what	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the base and from there to the soil. The dimensions of the columns degreed on the loads on them and their structural design, and the dimensions of the columns decrease the higher we go. Types of columns: Square columns: and the column sector is square and iron is distributed in them evenly, and iron is distributed in them evenly, and iron is linked uing alkane. Restangular columns and the column sector is sector is restangular, and iron is restangular, and iron is solved in them 				5 53.3%ag	
	of columns in concrete structures, and what	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Resinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the base and from there to the soil. The dimensions of the columns depend on the loads on them and their structural design, and the dimensions of the columns: Types of columns: Square columns and the column sector is square and iron is distributed in them evenly, and iron is distributed in them many for the column sector is restangular, and iron is distributed in the iron. 				5 53.3%ag	
	of columns in concrete structures, and what	Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2- Hypothesis 1- Resinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns depend on the loads on them and their structural design, and the dimensions of the columns decrease the higher we go. Types of columns: 1- Square columns and the column sector is square and iron is distributed in them evenly, and iron is distributed in them sector is meetinglar, and iron is distributed in them on the column sector, and the iron is linked using alkanes.				5 53.3%ag	
	of columns in concrete structures, and what	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebur for the base. 2. Hypothesis 1- Residue to the most important elements of structural structures: and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns design, and the dimensions of the column sector is square and iron is distributed in them evendy, and iron is inked using alkanes. 2. Rectangular columns and the column sector, and the iron is linked using alkanes. Hypothesis 2- 				5 53.3%ag	
	of columns in concrete structures, and what	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the base? Just the solid the dimensions of the columns depend on the loads on them and their structural design, and the dimensions of the columns: Types of columns: Square columns and the column sector is square and iron is distributed in them evenly, and iron is distributed in them evenly, and iron is linked using alkanes. Restangular columns and the column sector, and the iron is linked using alkanes. Hypothesis 2- Types of columns: 				5 53.3%ag	
	of columns in concrete structures, and what	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns depend on the loads on them and their structural design, and the dimensions of the columns: decrease the higher we go. Types of columns: Square columns and the column sector is square and iron is distributed in them evenly, and iron is distributed in the column sector is rectangular, and iron is distributed in the column sector, and the iron is linked using alkanes. Hypothesis 2- Types of columns: Circular columns and the column sector is sector is sector. 				5 53.3% agree	
	of columns in concrete structures, and what	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2. Hypothesis 1- Residue to the base of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the column sector is square only and iron is distributed in them evenly, and iron is distributed in them sector, and the iron is linked using alkanes. Hypothesis 2- Types of column: 1. Square columns and the column sector, and the iron is linked using alkanes. Hypothesis 2- Types of columnations and the column sector is circular columns and the column sector is circular				5 53.3% agree	
	of columns in concrete structures, and what	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2 Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns design and the instructural design, and the dimensions and the column sector is square and iron is distributed in them evenly, and iron is distributed in them sector, and the iron is linked using alkanes. Hypothesis 2- Types of columns: Circular columns and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector is sincelar and iron is distributed in them 				5 53.3% agree 46.7%	
	of columns in concrete structures, and what	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the base? and from the roof and beams to the base? Types of columns: Square columns and their structural design, and the dimensions of the columns depend on the loads on them and their structural design, and the dimensions of the columns: Types of columns: Square columns and the column sector is square and iron is distributed in them evenly, and iron is distributed in them secting lar columns and the column sector, and the iron is linked using alkanes. Hypothesis 2- Types of columns: Curcular columns and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the col				5 53.3% agree	
	of columns in concrete structures, and what	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Residue to the formation of the second structural structures and is responsible for transferring the loads from the roof and beams to the bases and four loads from the roof and beams to the bases and four loads from the soil. The dimensions of the columns degrad on the loads on them and their structural design, and the dimensions of the column sector is square columns and the column sector is square and iron is distributed in them evenly, and iron is distributed in them sector is nectangular, and the dimensions. 2. Rectangular columns and the column sector, and the iron is linked using alkanes. Hypothesis 2- Types of columns: 1. Circular columns and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector is circular, and iron is a distributed in them evenly on the perimeter of the column sector is circular, and iron is a stached using Alkanes. 				5 53.3% agree 46.7%	
	of columns in concrete structures, and what	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2. Hypothesis 1- Resinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the column sector is square and iron is distributed in theme evenly, and iron is distributed in theme. 2. Restangular columns and the column sector, and the iron is linked using alkanes. Hypothesis 2- Types of column: 1. Circular columns and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in theme evenly on the perimeter of the column sector, and the iron is distributed in theme evenly on the perimeter of the column sector. 2. Angle columns, and the column sector is distributed in theme evenly on the perimeter of the column sector. 				5 53.3% agree 46.7%	
	of columns in concrete structures, and what	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Residue to the formation of the second structural structures and is responsible for transferring the loads from the roof and beams to the bases and four loads from the roof and beams to the bases and four loads from the soil. The dimensions of the columns degrad on the loads on them and their structural design, and the dimensions of the column sector is square columns and the column sector is square and iron is distributed in them evenly, and iron is distributed in them sector, and the iron is linked using alkanes. Papothesis 2- Typothesis 2- Restangular columns and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector is distributed in them evenly on the perimeter of the column sector is distributed. 				5 53.3% agree 46.7%	
	of columns in concrete structures, and what	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2. Hypothesis 1- Resinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the column sector is square and iron is distributed in theme evenly, and iron is distributed in theme. 2. Restangular columns and the column sector, and the iron is linked using alkanes. Hypothesis 2- Types of column: 1. Circular columns and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in theme evenly on the perimeter of the column sector, and the iron is distributed in theme evenly on the perimeter of the column sector. 2. Angle columns, and the column sector is distributed in theme evenly on the perimeter of the column sector. 				5 53.3% agree 46.7%	
stuctural stuctures.	of columns in concrete structures, and what are their types?	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2 Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns degend on the loads on them and their structural design, and the dimensions of the columns degend on the loads on them and their structural design, and the dimensions of the column sector is square and iron is distributed in them evenly, and iron is distributed in them evenly, and iron is distributed in them evenly and the iron is linked using alkanes. Hypothesis 2- Types of columns: Circular columns and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector, and the iron is inked using alkanes. Circular columns, and the column sector is a circular, and iron is distributed in them evenly on the perimeter of the column sector, and the iron is attached using Alkanes. Angle columns, and the column sector is distributed in them evenly on the perimeter of the column sector, shall be in the form of an angle. 				5 53.3% agree 46.7% agree -	
structural structures.	of columns in concrete structures, and what are their types? 3-How to install	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Reinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the base? Types of columns: Square columns: and their structural design, and the dimensions of the columns depend on the loads on them and their structural design, and the dimensions of the columns: Square columns: Square columns: and the column sector is square and iron is distributed in them evenly, and iron is distributed in them evenly, and iron is linked using alkanes. Restengular columns and the column sector, and the iron is linked using alkanes. Hypothesis 2- Types of columns: Curcular columns and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector, shall be in the form of an angle. Hypothesis 1- 				5 53.3% agree 46.7% agree -	
structural structures.	of columns in concrete structures, and what are their types? -How to install cutouts in structural	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Residue to the base of the base of the most important elements of structural structures and is responsible for transferring the loads from the roof and basms to the bases and from the roof and basms to the base and from the roof and basms to the base and from the roof and basms to the base and from the roof and basms to the base and from the roof and basms to the base and from the roof and basms to the base and from the roof and basms to the base and from the root and the sould be based on the loads on them and their structural design, and the dimensions of the columns decrease the higher we go. Types of columns: 1. Square columns and the column sector is sectangular columns and the column sector, and the iron is linked using alkanes. 2. Rectangular columns and the column sector is circular, and iron is distributed in them sevenly on the perimeter of the column sector is distributed in them evenly on the perimeter of the column sector is distributed in them avenly on the perimeter of the column sector is distributed in them sevenly on the perimeter of the column sector is distributed in them avenly on the perimeter of the column sector is distributed in them avenly on the perimeter of the column sector is distributed in them avenly on the perimeter of the column sector is distributed in them form of an angle. 3. Hypothesis 1- The pothesis 1 and the integration and angle. 3. Hypothesis 1 and the integration and the				5 53.3% agree 46.7% agree -	
structural structures.	of columns in concrete structures, and what are their types? -How to install cutouts in structural	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2 Hypothesis 1- Residue to the form of the base by making the longitudinal iron linked with the rebor for the base. 2 Hypothesis 1- Residue to the base by making the longitudinal structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns design, and the dimensions of the column sector is square and iron is distributed in them evenly, and iron is distributed in them evenly, and iron is distributed in them evenly, and iron is distributed in them evenly on the perimeter of the column sector, and the iron is linked using alkanes. 2. Angle columns, and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector is distributed in them evenly on the perimeter of the column sector is hall be in the form of an angle. 3. Hypothesis 1- The partitions are faxed in the maximum periodic distributed in the parameter of the column sector is the partitions are faxed in the maximum periodic distributed in the parameter of the column sector is the security in the perimeter of the column sector is head with a secure to the secure of the column sector is the low in the form of an angle. 3. Hypothesis 1- 				5 53.3% agree 46.7%	
structural structures.	of columns in concrete structures, and what are their types? -How to install cutouts in structural	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2 Hypothesis 1- Residue to the form of the base by making the longitudinal iron linked with the rebor for the base. 2 Hypothesis 1- Residue to the base by making the longitudinal structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns design, and the dimensions of the column sector is square and iron is distributed in them evenly, and iron is distributed in them evenly, and iron is distributed in them evenly, and iron is distributed in them evenly on the perimeter of the column sector, and the iron is linked using alkanes. 2. Angle columns, and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector is distributed in them evenly on the perimeter of the column sector is hall be in the form of an angle. 3. Hypothesis 1- The partitions are faxed in the maximum periodic distributed in the parameter of the column sector is the partitions are faxed in the maximum periodic distributed in the parameter of the column sector is the security in the perimeter of the column sector is head with a secure to the secure of the column sector is the low in the form of an angle. 3. Hypothesis 1- 				5 53.3% agree 46.7% agree -	
structural structures.	of columns in concrete structures, and what are their types? -How to install cutouts in structural	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2. Hypothesis 1- Resinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns degend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimension of the column sector is square and iron is distributed in them evenly, and iron is inhibed using alkanes. Pacetragular columns and the column sector, and the iron is linked using alkanes. Hypothesis 2- Types of columns: Circular columns and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector shall be in the form of an angle. Hypothesis 1- The partitions are fixed in the masonry by either eacovaring the structure, inserting reinforcing bars extending into the masonry. 				5 53.3% agree 46.7% agree 46.7% agree /	_
structural structures.	of columns in concrete structures, and what are their types? -How to install cutouts in structural	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebur for the base. 2 Hypothesis 1- Residue to the base by making the longitudinal iron linked with the rebur for the base. 2 Hypothesis 1- Residue to the base of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and the column sector is square and iron is distributed in them evenly, and iron is distributed in them evenly, and iron is distributed in them evenly, and iron is distributed in them evenly on the perimeter of the column sector, and the iron is inked using alkanes. 2. Angle columns, and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector, shall be in the form of an angle. 3. Hypothesis 1- The partitions are faxed in the maximum, being the succurating the structure, inserting reinforcing bars extending into the maximum. 				5 53.3% agree 46.7% agree -	_
structural structures.	of columns in concrete structures, and what are their types? -How to install cutouts in structural	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebar for the base. 2. Hypothesis 1- Resinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the root and beams to the bases and from there to the scal. The dimensions of the columns depend on the loads on them and their structural design, and the dimensions of the columns depend on the loads on them and their structural design, and the dimensions of the columns depend on the loads on them and their structural design, and the dimensions of the columns decrease the higher we go. Types of columns: 1. Square columns and the column sector is square and iron is distributed in them evenly, and iron is distributed in them evenly, and the iron is distributed in them evenly on the perimeter of the column sector, and the iron is distributed in them evenly on the perimeter of the column sector shall be in the form of an angle. 3. Hypothesis 1- The pathions are fixed in the masomy by either excuvating the structure, inserting reinforcing bars extending into the masomy. Hypothesis 2- Or by fixing the joints between them and the 				5 53.3% agree 46.7% agree 46.7% agree /	
structural structures.	of columns in concrete structures, and what are their types?	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2. Hypothesis 1- Resinforced concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns degend on the loads on them and their structural design, and the dimensions of the columns design (and the in the soil. The dimensions of the column sector is square and iron is distributed in them evenly, and iron is inhied using alkanes. Papethesis 2- Types of columns: 1. Scuare columns and the column sector, and the iron is inked using alkanes. Hypothesis 2- Types of columns: 1. Circular columns and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector shall be in the form of an angle. 3. Hypothesis 1- The partitions are fixed in the maxomy by either excavating the structure, inserting reinforcing bars extending into the maxomy. Hypothesis 2- Chapter columns, and the column sector is the partitions are fixed in the maxomy by either excavating the structure, inserting reinforcing bars extending into the maxomy. 				5 53.3% agree 46.7% agree 46.7% agree /	
structural structures. 3- Walls (partitions) in structural structures. 4-Doors - their types	of columns in concrete structures, and what are their types?	 Hypothesis 2 - The foundations of concrete Hypothesis 2 - The foundations of concrete low of the base by making the longitudinal iron linked with the rebur for the base. 2 Hypothesis 1- Residue of the most important elements of structural structures: and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns despend on the loads on them and their structural design, and the dimensions of the columns despend on the loads on them and their structural design, and the dimensions of the columns despend on the loads on them and their structural design, and the dimensions of the columns despend on the loads on them and the column sector is square and iron is distributed in them evenly, and iron is infibuted in them evenly, and iron is distributed in them evenly, and iron is distributed in them evenly and the roi is attached using alkanes. Hypothesis 2- Kectangular, columns, and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector, shall be in the form of an angle. 3 Hypothesis 1- The partitions are fixed in the masomy by either exactioning into the masomy. Hypothesis 2- Or by fixing the joint between them and the concrete structure using BRC, or by using a wire rope that is fased with nal. 4 Hypothesis 1- 				5 53.3% agree 46.7% agree 46.7% agree /	_
3- Walls (partitions) in structural structures. 4-Doors - their types with details of their	of columns in concrete structures, and what are their types?	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2. Hypothesis 1- Residue to the base of the base of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the base and from there to the soil. The dimensions of the columns degreed on the loads on them and their structural design, and the dimensions of the column sector as square columns and the column sector is square and iron is distributed in them evenly, and iron is distributed in them evenly, and iron is distributed in them evenly, and iron is distributed in them evenly on the perimeter of the column sector is circular, and the iron is lanked using alkanes. Papes of columns: 1. Circular columns and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector is circular, and iron is stached using Alkanes. 2. Angle columns, and the column sector is alkanes. 2. Angle columns and the column sector is circular, and iron is attached using Alkanes. 3. Hypothesis 1- The partitions are faxed in the masomy by either eacavating the structure, inserting reinforcing bars extending into the masony. Hypothesis 2- Or by fixing the joints between them and the concrete structures using BRC, or by using a wire repetited is flowed on the lank. 4. Hypothesis 1- 1. Traditional doors 				SJ 3% agree 46.7% agree Agree Agree	-
structural structures. 3- Walls (partitions) in structural structures. 4-Doors - their types	of columns in concrete structures, and what are their types?	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2. Hypothesis 1- Residuent concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and basms to the bases and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the column sector is square only on the column sector is square and iron is distributed in them evenly, and iron is distributed in them a sector, and the iron is linked using alkanes. 2. Rectangular columns and the column sector, and the iron is linked using alkanes. Hypothesis 2- Types of columns: Circular columns and the column sector is distributed in them evenly on the perimeter of the column sector is distributed in them sector, and the iron is distributed in them sector is distributed in them se				5 53.3% agree 46.7% agree 46.7% agree 46.7%	-
3- Walls (partitions) in structural structures. 4-Doors - their types with details of their	of columns in concrete structures, and what are their types?	 Hypothesis 2 - The foundations of concrete Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2. Hypothesis 1- Resinforced concrete column: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and beams to the bases and from there to the soil. The dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the column sector is square and iron is distributed in theme evenly, and iron is include using alkanes. 2. Restangular columns and the column sector, and the iron is lanked using alkanes. Hypothesis 2- Types of column: 1. Circular columns, and the column sector is circular, and iron is distributed in them evenly on the perimeter of the column sector, shall be in the form of an angle. 3. Hypothesis 1- The partitions are fixed in the maximy by either excavating the structure, inserting reinforcing bars extending into the maxory. Hypothesis 2- Or by fixing the joints between them and the concrete structure using BRC, or by using a wire rope that is fixed with nalls. 4. Hypothesis 1- Traditional doors 2. Siding doors. The doors are fixed on the walls by installing the 				5 53.3% agree 46.7% agree 46.7% agree 46.7%	-
3- Walls (partitions) in structural structures. 4-Doors - their types with details of their	of columns in concrete structures, and what are their types?	 Hypothesis 2 - The foundations of concrete buildings are strip, joint or single. The columns are connected with the base by making the longitudinal iron linked with the rebor for the base. 2. Hypothesis 1- Residuent concrete columns: It is one of the most important elements of structural structures and is responsible for transferring the loads from the roof and basms to the bases and their structural design, and the dimensions of the columns deepend on the loads on them and their structural design, and the dimensions of the column sector is square only on the column sector is square and iron is distributed in them evenly, and iron is distributed in them a sector, and the iron is linked using alkanes. 2. Rectangular columns and the column sector, and the iron is linked using alkanes. Hypothesis 2- Types of columns: Circular columns and the column sector is distributed in them evenly on the perimeter of the column sector is distributed in them sector, and the iron is distributed in them sector is distributed in them se				SJ 3% agree 46.7% agree Agree Agree	-



e-ISSN: 2395-0056

W Volume: 08 Issue: 08 | Aug 2021

www.irjet.net

p-ISSN: 2395-0072

	INJET	orunner oc	135ue. 00 Aug 2021							LIIEL		p-135N. 25						
			Hypothesis 2-				1			The student recognizes	What are the most	Hypothesis 1 -						F
			1- folding or corrugated							-	prominent qualities.							
			2- Automatic door				đ	3		the most prominent	,	One of the most important features of Roman						
			The doors are fixed to the walls by installing a				40.0% agree			qualities,	characteristics,	architecture is that the Romans used contracts in all						
			prefabricated door with a frame after the completion				gree			characteristics,	architectural and urban	their forms, and ancient Roman architecture was						
			of the interior finishes of the building.				ľ			architectural and urban		characterized by strength, low costs, and flexibility.						
	5-Windows - their types	5-What are the types	5- Hypothesis 1-	\vdash	+	++	+	_	=	characteristics of Greek	Greek and Roman	The Roman architects did not care about building						
	with the details of their	of windows and how	1- Iron windows				0		stor	and Roman	civilization?	temples but were satisfied with building a special						
	installation.	are they installed in	2- PVC windows				60.0%	8	History of	architecture.		niche in each house. It is worth noting that the most						
		the building?	The windows are fixed by screws and plugs after the				o agro		Arc			important religious temples were built by Sibay and						
		int transfer	finishing stage.				8		hite			Tivoli. The Romans used the concrete used by						
			Hypothesis 2 –			\square	_		C L			ancient civilizations in the East to build these						
			1- aluminum windows						Architecture II (Greek and Roman))Architecture			temples, but the Romans were able to hide the					40	
			2- wooden windows				33	3	Gre			unacceptable form of concrete when they clad it with					40.0% agree	Ag
			Or it is installed during the construction phase by				5%6		ck a			bricks and stone to take an acceptable architectural					agr	ee.
			adding arms that are connected with bricks or				an ât		nd R			form.					8	
			blocks.						Om			Greek architecture: Greek architecture depends						
	6- External finishes and	6-What are the	Hypothesis 1-		_	\vdash	_	_	an)			based on its formation on the horizontal lining of the						
	resistance to	materials that resist	Materials that resist environmental factors in				4		Arc			openings with stone, and then the columns are the						
	environmental factors in	environmental factors	flattening. Many materials are used for flattening,				40.0%		hito			ones that bear this weight. Since the Greeks did not						
	ceilings (flatness).	in flattening?	including flancot, tar, iso cam, polyethylene (nylon),				89		Ĭ			_						
	conings (maness).	in him and	dry dirt, sand, sticker, and sometimes Kashi mosaic.				8					understand the theory of knots and so relied on the						
			Hypothesis 2 –		+	++	+	_				columns and were interested in studying them, the						
			Materials that resist environmental factors in				8	*				Greeks created an art in which there is perfection						
			flattening, Cold flancot, and the main material is				1%0	2				and beauty, graceful proportions, and complete						
			cork.				agree					simplicity and this is one of the most important						
							8					features of Greek architecture.						
																		-
			Hypothesis 2-						1									_
			One of the most important features of Roman							1-The student of		1- Hypothesis 1 –					10	
			architecture is that it was complex and difficult, and							architecture recognizes	resistance of materials	Stretch resistance, compressive resistance.					53.3%	
			this was not the case in the ancient Greek							the behavior of	and structural elements						% as	
			civilization, which is the cradle of Roman							materials and	under the influence of						agree	
			architecture. The main reason for the complexity of a						B	construction elements	external loads and	Hypothesis 2				-		4
			Roman architecture is the existence of domes.						ater	as the existence of	forces?							
			Building materials and construction methods:						lals	external forces and the		 tensile resistance 						
			Their buildings differed according to the purpose.						2			 Rotation resistance. 						4
			Their buildings differed according to the purpose.							resulting internal forces							N	
									Istanc	resulting internal forces.							46.7	
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their						Istance	Thus, exploiting the							46.7% aş	
			Some of them were placed on a circular or octagonal						Istance	Thus, exploiting the strengths of the material							46.7% agree	
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their						Istance	Thus, exploiting the strengths of the material and avoiding and							46.7% agree	
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction.						Istance	Thus, exploiting the strengths of the material and avoiding and strengthening areas of							46.7% agree	
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for						stance	Thus, exploiting the strengths of the material and avoiding and								
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture Greek architecture is known for its tall columns, intricate detailing, harmony,						stance	Thus, exploiting the strengths of the material and avoiding and strengthening areas of	The second :				%4	2.60		
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture : Greek architecture is known for its tall columna, intricate detailing, harmony, harmony, and balance.				Agree		stance	Thus, exploiting the strengths of the material and avoiding and strengthening areas of		stage result						
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their				Agree		stance	Thus, exploiting the strengths of the material and avoiding and strengthening areas of				Liker	%4 t scal			
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of				Agree		stance	Thus, exploiting the strengths of the material and avoiding and strengthening areas of		stage result		Liker				R
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles				Адгее			Thus, exploiting the strengths of the material and avoiding and strengthening areas of		stage result		Liker				Ratio
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the				Agree			Thus, exploiting the strengths of the material and avoiding and strengthening areas of		stage result		Liker				Ratio
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the Greek patterns, where they had no decoration at the base, and the head had decorations, but only from the top. Doric				Agree		stance Educational level	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.		stage result		Liker				Ratio
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the Greek patterns, where they had no decoration, but only from the top. Doric columns are pointed so that they were				Agree		tional level	Thus, exploiting the strengths of the material and avoiding and strengthening areas of		stage result	1	Liker	t scal	e		Ratio
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the Greek patterns, where they had no decoration at the base, and the head had decorations, but only from the top. Doric				Agree		tional level	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.	The d	stage result iird stage	Str		t scal	e		J
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the Greek patterns, where they had no decoration, but only from the top. Doric columns are pointed so that they were				Agree		tional level	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.	The d	stage result iird stage	Str		t scal	e		J
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and bolance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the Greek patterns, where they had no decorations, but only from the top. Doric columns are pointed so that they were wider at the bottom than they were at the top. - The Ionic columns, which were thinner				Agree		tional level study vocabi	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.	The d	stage result iird stage	Str	Liker	t scal			J
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the Greek patterns, where they had no decoration at the base, and the head had decorations, but only from the top. Doric columns are pointed so that they were wider at the bottom than they were at the top. - The Jonic columns, which were thinner than the Doric and had a base at the				Agree		tional level	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.	The d	stage result iird stage	Str		t scal	e		J
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the Greek patterns, where they had no decoration, sut only from the top. Doric columns are pointed so that they were wider at the bottom than they were at the top. - The Ionic columns, which were thinner than the Doric and had a base at the bottom, were decorated at the top with				Agree		tional level study vocabi	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.	The f	stage result iird stage	Str		t scal	e		J
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the Greek patterns, where they had no decoration at the base, and the head had decorations, but only from the top. Doric columns are pointed so that they were wider at the bottom than they were at the top. - The Jonic columns, which were thinner than the Doric and had a base at the				Agree		tional level study vocabi	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness. Educational objectives	The t Possible problems 1-How are complex,	stage result aird stage problem-solving hypotheses 1- Hypothesis 1-	Str		t scal	e		J
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the Greek patterns, where they had no decoration, sut only from the top. Doric columns are pointed so that they were wider at the bottom than they were at the top. - The Ionic columns, which were thinner than the Doric and had a base at the bottom, were decorated at the top with				Agree		tional level study vocabi	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.	The t Possible problems	stage result ind stage problem-solving hypotheses 1- Hypothesis 1- The multifunctional project has several directions in	Str		t scal	e		J
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columna; intricate detailing, harmony, harmony, and balance. Greek Columna: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the Greek patterns, where they had no decorations at the base, and the based had decorations, but only from the top. Doric columns are pointed so that they were wider at the bottom than they were at the top. - The Ionic columns, which were thinner than the Doric and had a base at the bottom, were decorated at the top with scrolls on each side. - Corinthian columns, the most popular of which was Corinthian decoration, were				Agree		tional level study vocabi	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness. Educational objectives 1-The student is introduced to complex and multifunctional	The t Possible problems	tage result ind stage problem-solving hypotheses 1- Hypothesis 1- The multifunctional project has several directions in its design, including:	Str		t scal	e		J
			Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the Greek patterns, where they had no decorations, but only from the top. Doric columns are pointed so that they were wider at the bottom than they were a the top. - The Jonic columns, which were thinner than the Doric and had a base at the bottom, were decorated at the top with scrolls on each tide.				Agree		tional level study vocabi	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness. Educational objectives 1-The student is introduced to complex and multifunctional projects for their	The t Possible problems	tage result ind stage problem-solving hypotheses 1- Hypothesis 1- The multifunctional project has several directions in its design, including: 1. Considering the project as a single	Str		t scal	e		J
	1-Reaching a good	1-How to acquire	Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the Greek patterns, where they had no decoration, but only from the top. Doric columns are pointed so that they were wider at the bottom than they were at the top. - The Ionic columns, which were thinner than the Doric and had a base at the bottom, were decorated at the top with scrolls on each side. - Corinthian columns, the most popular of which was Corinthian decoration, were decorated with scrolls and foliage. 1. Hypothesis 1				Agree		nonai Jevel study vocabulary	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness. Educational objectives 1-The student is introduced to complex and multifunctional projects for their various exploitative and	The t Possible problems	 stage result ind stage problem-solving hypotheses 1- Hypothesis 1- The multifunctional project has several directions in its design, including: 1. Considering the project as a single architectural block in which several main 	Str		t scal	e		J
	stage in the use of the	design skills and	 Some of them were placed on a circular or octagonal thips, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles Doric columns are the simplest of the Greek patterns, where they had no decoration, but only from the top. Doric columns are posited so that they were wider at the bottom than they were at the top. The Ionic columns, which were thinner than the Doric and had a base at the bottom, were decorated at the top with scrolls on each side. Corinthian columns, the most popular of which was Corinthian decoration, were decorated with scrolls and foliage. Hypothesis1 						nonai Jevel study vocabulary	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness. Educational objectives 1-The student is introduced to complex and multifunctional projects for their various exploitative and service spaces. The	The t Possible problems	 tage result ind stage problem-solving hypotheses 1- Hypothesis 1- The multifunctional project has several directions in its design, including: 1. Considering the project as a single architectural block in which several main or subsidiary entrances can be accessed to 	Str		t scal	e		J
	stage in the use of the AutoCAD program	design skills and technical skills in	 Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles Doric columns are the simplest of the Greek spatterns, where they had no decoration at the base, and the head had decoration, but only from the top. Doric columns are pointed so that they were wider at the bottom than they were a the top. The Jonic columns, which were thinner than the Doric and had a base at the bottom, were decorated at the top with scrolls on each aide. Corinthian columns, the most popular of which was Corinthian decoration, were decorated with scrolls and foliage. Hypothesis 1 Through the AutoCAD program, it is possible to produce two-dimensional architectural plans as well 						nonai Jevel study vocabulary	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness. Educational objectives l-The student is introduced to complex and multifunctional projects for their various exploitative and service spaces. The construction decisions	The t Possible problems	 stage result problem-solving hypotheses 1- Hypothesis 1- The multifunctional project has several directions in its design, including: Considering the project as a single architectural block in which several main or subsidiary entrances can be accessed to a large main interior foyer that includes a 	Str		t scal	e	Result	Final result
	stage in the use of the AutoCAD program through the correlation	design skills and	Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles - Doric columns are the simplest of the Greek patterns, where they had no decorations, but only from the top. Doric columns are pointed so that they were wider at the boston than they were at the top. - The Jonic columns, which were thinner than the Doric and had a base at the bottom, were decorated at the top with scrolls on each tide. - Corinthian columns, the most popular of which was Corinthian decoration, were decorated with scrolls and foliage. 1. Hypothesis 1 Through the AutoCAD program, it is possible to produce two-dimensional architectural plans as well as three-dimensional models. Through AutoCAD,				53.3%		nonai Jevel study vocabulary	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.	The t Possible problems	problem-solving hypotheses I- Hypothesis I- The multifunctional project has several directions in its design, including: I. Considering the project as a single architectural block in which several main or subsidiary entrances can be accessed to a large main interior foyer that includes a set of stairs, and from it a group of roads	Str		t scal	e	Result	Final result
	stage in the use of the AutoCAD program through the correlation or parallel between the	design skills and technical skills in	 Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles. Doric columns are the simplest of the Greek patterns, where they had no decorations, but only from the top. Doric columns are pointed so that they were wider at the bottom than they were a the top. The Ionic columns, which were thinner than the Doric and had a base at the bottom, were decorated at the top with scrolls on each side. Corinthian columns, the most popular of which was Corinthian decoration, were decorated with scrolls and foliage. Hypothesis 1 Through the AutoCAD program, it is possible to produce two-dimensional machitectural plans as well as three-dimensional machies. 						nonai Jevel study vocabulary	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness. Educational objectives 1-The student is introduced to complex and multifunctional projects for their various exploitative and service spaces. The construction decisions and implementation technology are at the	The t Possible problems	problem-solving hypotheses I- Hypothesis 1- The multifunctional project has several directions in its design, including: I. Considering the project as a single architectural block in which several main or subsidiary entrances can be accessed to a large main interior foyer that includes a set of stairs, and from it a group of roads that reach the elements of the project.	Str		t scal	e	Result	Final result
001	stage in the use of the AutoCAD program through the correlation or parallel between the two lines of acquiring	design skills and technical skills in	 Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles Doric columns are the simplest of the Greek patterns, where they had no decoration at the base, and the head had decorations, but colly from the top. Doric columns are pointed so that they were wider at the bottom han they were at the top. The Ionic columns, which were thinner than the Doric and had a base at the bottom, were decorated at the top with scrolls on each side. Corinthian columns, the most popular of which was Corinthian decoration, and pilagae. Hypothesis 1 Through the AntoCAD program, it is possible to produce two-dimensional architectural plans as well as three-dimensional models. Through AutoCAD, various regular and inregular thapes are drawn to reach the required skill 				53.3%	53.	tional level study vocabi	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.	The t Possible problems	stage result aind stage problem-solving hypotheses 1- Hypothesis 1- The multifunctional project has several directions in its design, including: 1. Considering the project as a single architectural block in which several main or subsidiary entrances can be accessed to a large main interior foyer that includes a set of stairs, and from it a group of roads that reach the elements of the project. 2. Splitting the project into parts by function	Str		t scal	e		Final result
comput	stage in the use of the AutoCAD program through the correlation or parallel between the two lines of acquiring the design skill and the	design skills and technical skills in	 Some of them were placed on a circular or octagonal thape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles Doric columns are the simplest of the Greek patterns, where they had no decoration at the base, and the head had decorations, but only from the top. Doric columns are pointed so that they were wider at the bottom than they were a the top. The Ionic columns, which were thinner than the Doric and had a base at the bottom, were decorated at the top with scrolls on each nide. Corinthian columns, the most popular of which was Corinthian decoration, were decorated with scrolls and foliage. Hypothesis1 Through the AutoCAD program, it is possible to produce two-dimensional architectural plans as well as three-dimensional models. Through AutoCAD, various regular and irregular shapes are drawn to reach the required shall 				53.3%	53.	nonai Jevel study vocabulary	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness. Educational objectives 1-The student is introduced to complex and multifunctional projects for their various exploitative and service spaces. The construction decisions and implementation technology are at the	The t Possible problems	problem-solving hypotheses I- Hypothesis 1- The multifunctional project has several directions in its design, including: I. Considering the project as a single architectural block in which several main or subsidiary entrances can be accessed to a large main interior foyer that includes a set of stairs, and from it a group of roads that reach the elements of the project.	Str		t scal	e	Result	Final result
computers	stage in the use of the AutoCAD program through the correlation or parallel between the two lines of acquiring the design skill and the technical skill in using	design skills and technical skills in	 Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles. Doric columns are the simplest of the Greek pattern, where they had no decoration, but only from the top. Doric columns are pointed so that they were wider at the bottom than they were at the top. The Jonic columns, which were thin the Doric and had a base at the bottom, were decorated at the top with scrolls on each tide. Corinthian columns, the most popular of which was Corinthian decoration, were decorated with scrolls and foliage. Hypothesis 1 Through the AutoCAD program, it is possible to produce two-dimensional architectural plans as well as three-dimensional architectural plans as well as three-dimensional models. Through AutoCAD, various regular and inregular shapes are drawn to reach the required skill 				53.3% agree	53.33% agre	nonai Jevel study vocabulary	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.	The t Possible problems	stage result aind stage problem-solving hypotheses 1- Hypothesis 1- The multifunctional project has several directions in its design, including: 1. Considering the project as a single architectural block in which several main or subsidiary entrances can be accessed to a large main interior foyer that includes a set of stairs, and from it a group of roads that reach the elements of the project. 2. Splitting the project into parts by function	Str		t scal	e	Result	Final result
computers	stage in the use of the AutoCAD program through the correlation or parallel between the two lines of acquiring the design skill and the technical skill in using the program to	design skills and technical skills in	 Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles. Doric columns are the simplest of the Greek patterns, where they had no decoration, but only from the top. Doric columns are pointed so that they were wider at the bottom than they were at the top. The Ionic columns, which were thinner than the Doric and had a base at the bottom, were decorated at the top with scrolls on each aide. Corinthian columns, the most popular of which was Corinthian decoration, were decorated at the top roduce two-dimensional architectural plans as well as three-dimensional architectural plans as well as three-dimensional architectural plans as well as the required shill Hypothesis 2: Design shill and technical shill in using AutoCAD software can be acquired by contributing to the 				53.3% agree	53.33% agre	nonai Jevel study vocabulary	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.	The t Possible problems	stage result ind stage problem-solving hypotheses 1- Hypothesis 1- The multifunctional project has several directions in its design, including: 1. Considering the project as a single architectural block in which several main or subsidiary entrances can be accessed to a large main interior foyer that includes a set of stairs, and from it a group of roads that reach the elements of the project. 2. Splitting the project into parts by function with a vacuum link and the possibility of	Str		t scal	e	Result	Final result
computers	stage in the use of the AutoCAD program through the correlation or parallel between the two lines of acquiring the design skill and the technical skill in using the program to implement and show	design skills and technical skills in	 Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles Doric columns are the simplest of the Greek patterns, where they had no decoration, but only form the top. Doric columns are boined so that they were wider at the bottom than they were at the top. The Ionic columns, which were thinner than the Doric and had a base at the bottom, ware decorated at the top with scrolls on each side. Corinthian columns, the most popular of which was Corinthian decoration, were decorated with scrolls and foliage. Hypothesis 1 Through the AutoCAD program, it is possible to produce two-dimensional models. Through AutoCAD, various regular and irregular shapes are drawn to reach the required skill Hypothesis 2: Design skill and technical skill in using AutoCAD software can be acquired by contributing to the creation, modification, analysis, or improvement of 				53.3%	53.33% agre	nonai Jevel study vocabulary	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.	The t Possible problems	 stage result ind stage problem-solving hypotheses 1- Hypothesis 1- The multifunctional project has several directions in its design, including: 1. Considering the project as a single architectural block in which several main or subsidiary entrances can be accessed to a large main interior foyer that includes a set of stairs, and from it a group of roads that reach the elements of the project. 2. Splitting the project into parts by function with a vacuum link and the possibility of providing green surfaces a open areas, 	Str		t scal	e	Result	Final result
computers	stage in the use of the AutoCAD program through the correlation or parallel between the two lines of acquiring the design skill and the technical skill in using the program to	design skills and technical skills in	 Some of them were placed on a circular or octagonal thape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles Doric columns are the simplest of the Greek patterns, where they had no decoration at the base, and the head had decorations, but only from the top. Doric columns are pointed so that they were wider at the bottom than they were at the top. The Ionic columns, which were thinner than the Doric and had a base at the bottom, were decorated at the top with scrolls on each nide. Corinthian columns, the most popular of which was Corinthian decoration, were decorated at the top through the AutoCAD program, it is possible to produce two-dimensional architectural plans as well as three-dimensional architectural plans as well as there-dimensional models. Through AutoCAD, various regular and irregular shapes are drawn to reach the required shall Hypothesis 2- 				53.3% agree	53.33% agre	nonai Jevel study vocabulary	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.	The t Possible problems	 tage result ind stage problem-solving hypotheses 1- Hypothesis 1- The multifunctional project has several directions in its design, including: 1. Considering the project as a single architectural block in which several main or subsidiary entrances can be accessed to a large main interior foyer that includes a set of stairs, and from it a group of roads that reach the elements of the project. 2. Splitting the project into parts by function with a vacuum link and the possibility of providing green surfaces as open areas, taking into account the relationship of the 	Str		t scal	e	Result	Final result
computers	stage in the use of the AutoCAD program through the correlation or parallel between the two lines of acquiring the design skill and the technical skill in using the program to implement and show	design skills and technical skills in	 Some of them were placed on a circular or octagonal shape, which are different bodies that indicate their ability in rapid construction. Greek Architecture: Greek architecture is known for its tall columns, intricate detailing, harmony, harmony, and balance. Greek Columns: The Greeks built most of their temples and government buildings in three types of styles Doric columns are the simplest of the Greek patterns, where they had no decoration, but only form the top. Doric columns are boined so that they were wider at the bottom than they were at the top. The Ionic columns, which were thinner than the Doric and had a base at the bottom, ware decorated at the top with scrolls on each side. Corinthian columns, the most popular of which was Corinthian decoration, were decorated with scrolls and foliage. Hypothesis 1 Through the AutoCAD program, it is possible to produce two-dimensional models. Through AutoCAD, various regular and irregular shapes are drawn to reach the required skill Hypothesis 2: Design skill and technical skill in using AutoCAD software can be acquired by contributing to the creation, modification, analysis, or improvement of 				53.3% agree	53.33% agre	nonai Jevel study vocabulary	Thus, exploiting the strengths of the material and avoiding and strengthening areas of weakness.	The t Possible problems	tage result ind stage problem-solving hypotheses 1- Hypothesis 1- The multifunctional project has several directions in its design, including: 1. Considering the project as a single architectural block in which several main or subsidiary entrances can be accessed to a large main interior foyer that includes a set of stairs, and from it a group of roads that reach the elements of the project. 2. Splitting the project into parts by function with a vacuum link and the possibility of providing green surfaces as open areas, taking into account the relationship of the constituent elements of the project and its	Str		t scal	e	Result	Final result



W Volume: 08 Issue: 08 | Aug 2021

www.irjet.net

p-ISSN: 2395-0072

Verwaard Norder See Particle		IRJET													
1 - balance generation - balance generation - balance generation - balance generation 10mm Hermann - balance generation - balance generat				Hypothesis 2 –			T	4-The student learns	4-What are the	4- Hypothesis 1 -					
1 Sec. Society of the sec.															
Provide a constraint of the second seco						53.39			external covering						
Normal Part Part Part Part Part Part Part Part				2- Distribute the project elements freely in		6 ag		a deling, data in inter.	-						
Jack Hardson, Same Lange, Same						8				-					
Start is practical for the matrixed is a first start is a first star				design that adheres to functional and					Curtin walls, Facing)?						
		2-Learn the principles					+								
View of the second of the s	1	of designing functional		The structural solutions for a particular building		5.7									
with an extraction Spectra 2	1	requirements of a				%ag				or aluminum corners 5 * 5 cm or 10 * 10					
Materials Comments				designed architectural spaces, and the loads.		6				cm thickness of 5 mm. Where the joints					
Non-Register in the second of the s				Hypothesis 2-			+			are filled with silicone and then rubber					
Notes				Construction and technological decisions in the						bands.					
all products Note of a finance statution of a finan										2- Zero joint installation method. Similar to				10.0	40.0%
which for here is a final state of the index						53.39				-					2
Number of end end of						6 agr								101	
www.mask isolation isolation <th< td=""><td></td><td>details directed for this</td><td></td><td></td><td></td><td>8</td><td></td><td></td><td></td><td>• /</td><td></td><td></td><td></td><td></td><td></td></th<>		details directed for this				8				• /					
Bit	1	purpose through a													
Image: space of definition is provided if provided i	1	multi-story project.													
Instantian Instant		1-The student will	1-What are the types												
out norm				Often the mat foundation.		2				with screws or nails with the plastic anchor					
 Norman Norman						gree				fixed with glue.					
1 The shade state 1 Special 1: Special 2: Special 2: Speci			precast buildings?							-(curtain walls) its composition depends on the					
The maker laws of the set of the	Ľ	ounangs.								type of the C.wall where the unit:					
13. The schedule later: 2. Market is type: 2. Market is type: 3.				Also, the strip foundation.		Agr				1-none load-bearing system.					
12. The match lense 2. Mark et argo 2. Mark et argo 3. Mar						8	T								
abore to report of protein mean Type of protein mean <td< td=""><td></td><td>2-The student learns</td><td>2-What are the types</td><td>2- Hypothesis 1-</td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		2-The student learns	2-What are the types	2- Hypothesis 1-			-								
 Internet norme winding and is indexed by many size in the stating of the set of the se						40.								-	4
a kunsen konstanger a hon buikinger hon ben buikinger hon bu															
International additional properties Bygedian 2- in the statement due of the lower of the lower low is due of the lower lower lower here the rescale additional lower lowere lower lower lower lower lower lower lower lower low			_			818									
a thick building: 1 - More and procession converting Procession of the set 3d or software results of Procession and Induced Procession an			in those buildings?	Hypothesis 2 –			40.0								
3 The status far 3 Mar a far 3 The status far 3 Mar a far 3 The status far 3 Mar b for a far a far 1 Mar a far		in those buildings				40.0	% ag								
17. The model lates of grap system 1. Hypostem 1: and more identicity of grap system 1. Hypostem 1: and draw by weak is one grap system if a manufact density of grap system. 1. Hypostem 1: and draw by weak is one grap system if a manufact density of grap system. 1. Hypostem 1: and hypostem				shear wall slab column system.)% at	ee			installed longitudinal and latitudinal on the					
amound addin ka Addine stresses b. s. define stresses b. d						aalg				facade and the sides of the board are					
 accord a data is a discussion of according only on a constraint, a source of maximum data lands because of a periodic ly one of one line, which and a lands one constraint, and accord and y a periodic ly one of accord and y a periodic ly one of accord and y a periodic ly one of accord accor	Ь	3-The student learns the	3-What is the	 Hypothesis 1 – 			-			perforated so that it is bent and installed				10.0	40 0%
implement for closel and que system. over grow and fee status yeaking? within the status with the oright pressure are specified on the specified inter- specified on the specified inter- specified on the specified on the specified on the specified on the specified on the specified on the specified on the specified on the specified on the specified on the specified on the specified on the s										directly on the structure.					2
add open system. open system in the factory building? bit yes control do by to a planting two areas. Opening parbol, . The parbolic facing forcing on the factory building? Description of the parbolic facing forcing is into moder and find with server. Description of the parbolic control of the states of the parbolic description of the parbolic	i	implement the closed	closed system and the	materials used are limited to certain limits, such that											
1: The shufter large short of a nearly protein which generative shorts of a nearly protein which generative short for a nearly protein which generative short of a nearly protein which generative short of a nearly protein which has not for a nearly in the shorts of denotes in formation that where we is normalized protein in the shorts of denotes in the short future. 1. Hypothesis 1: -1. Hypothesi	1	and open system.	open system in the	they are confined only to a particular town or		ㅎ									
1: The shufer large 1: Hypothesis 1:			factory building?	country, forcing us only to use them.		.0%				· · · ·					
I The related law and the set of the matrix and set overly of the matrix and set of the set of						Neut									
Image: Second						Tal.	•			with screws.					
1. The index lense motion radius of a sum of the sum of t															
about 6 mont				of the materials used.											
about for subset of the second of the battern of t							-					-		_	_
 importang arkinotani during arkinotani during independent of the span in the grant billing of arkinotation of the span in the grant billing of arkinotation in the grant billing independent and consorts to the dark the span interval jummer? is the same of the subscription of the dark billing independent and consorts to the dark the span interval jummer? is the same of the subscription of the dark billing independent and consorts to the dark the span interval jummer? is the same of the subscription of the dark billing independent and consorts to the dark the same of the subscription of the dark billing independent and consorts to the dark the same of the subscription of the dark billing independent and consorts to the dark the same of the subscription of the dark billing independent and consorts to the dark the same of the subscription of the dark billing independent the intervent and dark the same of the subscription of the dark billing independent the intervent and dark the same of the subscription of the same of the subscription of the same of the subscription of the sub															
fames. Cristia architectes and what are in containageners? Linkin architectes architectes and what are containageners? Linkin architectes ar										-					
 In the state of the second decoration in the balls, and halp, patch halls, and halp, patch halls, and halp patch halls, and reviewes a state of the state of the		-													
 include all pattern? plots of exclup pattern	Ľ	learnes.													
 In the study of the spin of t														will u	-
 In the the large independent and connected to the church wing imple construction in the value of the church, wing imple construction is a name of the church, wing imple construction is a name of the church, wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the church wing imple construction is a name of the name of the church wing imple construction is a name of the name of t			Suddian particular.											2	
Caling: Woods ceiling were used to cover the marked in marked, using imple construction method, using imple construction method. The studies fast method is according to the construction method, using imple construction method, using imple construction method. The studies fast method is according to the interior grade is individual design. The construction is indicated with the most decaration with due, method is according to the interior grade is indicated by the fast method. The method is according to the interior grade is indicated by the fast method is according to the interior grade is indicated by the fast method. The method is according to the interior grade is indicated by the fast method is according to the interior grade is indicated by the fast method is according to the interior grade is indicated by the fast method. The method is according to the information of the window method is marked to be interior grade in the information of the window method is according to the information of the information in a single to the information of the window method is according to the information of the window method is according to the information of the window method is according to the information of the window method is according to the information of the window method is according to the information of the window method is according to the information of the window method is according to the information of the window metho						53.3									
 ave of the church, using simple contruction method, such at the wooken thrus root with near or two pills. The setting of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of the durch was built in the same of the sinks of	1			church.		% ag				pottery in the construction of domes, and bricks by					
 and body, such as the wooden trues roof with one or two pollars. The ceiling of the saide of the dusch was been the optime. The scaling of the saide of the dusch does, for the coiling of the saide of the dusch and covered with beam field in a non-temperature in the scale of the saide of the dusch. The saide state is no parameter were been appearance was not important to them, whilewash, or bracks, root shows and does was used to follow the wither weight and the same state the same state. The scale around the dusch, and they were covered with the same state is no parameter were beam appearance was not important to them. Apartmer: The sensition and doc was used to follow the thin markles called around the either markle state balls. The scale around the form the outling and the state state is no parameter were added around the optime. The scale around the scale around the state the state of the state. The state of the	1			-Ceilings: Wooden ceilings were used to cover the		Tee				Byzantines in a small way compared to Italy.					
Invo pillar. The celling of the sides of the church we built in the same form and the dome, for the earling of the minibe and covered with beamful glass maximum. Invo pillar. The celling of the minibe and covered with beamful glass maximum evolution. Hypothesis 1Wilk: The wells were built in the same Reman way sing rubble or concests, and they were covered with measing, the most decreation was does, and cometimes the weight of the bands. Hypothesis 2Wilk: The wells were built in the same Reman way sing rubble or concests, and they were covered with measing, the most decreation was does, and cometimes the weight should be attractivities of all-Bravial focus and dates of the single around the duals. Apertures: The sensitivity arch was used to follow the sinus dues on square hall The student learn a churce was the duals the sinus due to another, and does was used and the finance of all-Bravial focus dues or square hall The student learn a churce was used and the finance of all-Bravial does on square hall The student learn a churce was used and the finance of all-Bravial does on square hall The student learn a churce was used and the finance of the him makes of the balls The student learn a churce was used and the finance of all-Bravial does on square hall The student learn a churce was used and the finance of all-Bravial does on square hall The student learn a churce was used and the finance of all-Bravial does on square hall The student learn a churce was the main does, and comments we added around the or of the single does on square hall The student learn a churce was used and the finance of the balls The student learn a churce was used and the finance of the balls The student learn a churce was used and the finance of the balls The student learn a churce was used and the finance of the balls The student learn a churce was used and th	L			nave of the church, using simple construction											
 we built in the name of the value and the done, for the calling of the miln's and covered with beamting data monitor. Wall: The walls were built in the same Roman way uing mbles or conserts, and beywere covered with store, whiewash, or brick. From the inside, the monitor call meters or space into individual cells according to the monitor and the source store was not important to them. Apertures: The semicircular ach was used to follow the windows and doors and completion to the matrix is a large square data built, none cose, the training to the fit is a large square data built, none cose, the training to the fit is a large square data built, none cose, the training to the fit is a large square data built in the same starts. The student learne and the four comments in completion: the matrix and the or a value of data built, none cose, the training to the fit is a large square data built, none cose, the training to the fit is a large square data built for the student learner. Bypanting architecture in the characteristic of the reasons for its easy matrix: matrix is a large square data built for a characteristic of the reasons for its easy matrix call the four comment has the model and the four comment were added around the gamma. The student learne is characteristic of the reasons for its easy matrix call the four comment has the model of a value to the matrix call the four comment has the model and the four comment has the model and the four comment has the model of the comment is characteristic. The student learne is characteristic conditions on the wave and the four comment were added around the four comment has the model around intersection wall to a develop of the durat. The student learner is a large square data has four a value to the matrix call the store of a value of the student of the store is a large square data has four around the fit of a value to the the student four comment has the model around the hilt has and has four	L							-			T			T	
2. The student learn 2. What is the style of a number to lold dones on square hilts. Hypothesis 1. 2. The student learn 2. What is the style of a number to lold dones on square hilts. Hypothesis 1. 2. The student learn 2. What is the style of a number to lold dones on square hilts. Hypothesis 1. 3. The student learn 2. What is the style of a number to lold dones on square hilts. Hypothesis 1. 3. The student learn 2. What is the style of a number to lold dones on square hilts. Hypothesis 1. 3. The student learn 2. What is the style of a number to lold dones on square hilts. Hypothesis 1. 3. The student learn a rehitecture Hypothesis 1. 3. The student learn A characteristics of filts. Hypothesis 1. 3. The student learn A start are the factors Hypothesis 1. 3. The student learn A start are the factors Hypothesis 1. 3. The student learn Start is to large square this down and doors was used, and the intersecting square this start of square this hold dones on square hills. Hypothesis 1. 3. The student learn Comparison for this down a constrained the time down and the factor of the student we have this how the mind done, and the tare that for on square the student of the student student hill the student student hill the student student hill the student student hill the student stu	L														
2. The student learn byzatike architecture, and byzatike architecture, a	1							-	-					2	-
Hypothesis 2- 				-										COLORUM COLORUM	
2. The student learn: 2. The student learn: 2. What is the type of pointing. 2. The student learn: 2. What is the type of pointing. 3. The student learn: 2. The student learn: 2. The student learn: 2. What is the type of pointing. 3. What is the type of the student learn: 3. What is the type of the student learn: 4. What is the type of the student learn: 3. Student learn: 4. The student learn: 4. What are the factors: 4. What is the type of the student learn: 3. Student learn: 3. Student learn: 3. Student learn: 3. Student learn: 4. The student learn: 4. What are the factors: 4. What is the type of the student learn: 3. Student learn: 3. Student learn: 4. The student learn: 4. What are the factors: 4. What is the type of the student learn: 3. Student learn: 3. Student learn: 4. The student learn: 4. What are the factors: 4. What is the type of the student learn: 4. What is the type of the student learn: 5. Student learn: 5. Student learn: 5. Student learn: 5. Student learn: 4. The student learn: 4. What are the factors: 5. Student learn: 6. Stors:	1			-	-		-								
Way using table or concrete, and they were covered with stone, whiteward, or brick, from the imide, the mosile decoration way done, and the outside, and the cutied, and the cutied cutients, and there is no patient in the characteristic. 4. The student learn architecture is the standard form of the cutients, and there is no patient is the form of shall but of the windows and doors way used, and the influencing architecture in Europe architecture in Europe. 3. The student learn architecture, in Byzantine architecture, and the reasons for	L														
Vith stoe, whitewach, or bricks. From the inide, the monitor was doe, and constitue the wettern will was decoration was doe, and constitue the wettern will was decorated from the outside, and the external apparance was not important to the man. Apertures: The semicircular arch was used to follow the windows and doors. The arches of al-Bawaki focused directly on the capitals of the columns, and there is no patient in these halls. In some case, the straight but of the windows and doors was used, and the thin marble ornamests were added around the opening. 2. The student learn: in Byzantine was first the style of architecture in builty. Using patienties to hold dones on square fails. The series is a large square dish above the main dome, and the for corners but the form of a value of a straight but of the sum of a value of a square market. In Byzantine architecture, in Byzantine architecture, in Byzantine architecture in the form of a value of a construction, as it can be built on light packages. Of the reasons for their emergence?	L										+		\square	+	۲
2- The student learns of the in mode construction, and the style of about the style of the intersection of the style of	1									A characteristic of Gothic church architecture is its					
2- The student learns about the style of prantine architectural buildings it characteristics, and the reasons for this emergence. 2- What is the style of architectural buildings it characteristics, and the reasons for this emergence. 2. What is the style of architectural buildings it characteristics, and the four and the four ones atters the four of a value of half a comments were shalls. In some cases, the straight but of the windows and doors: was used, and the finance cases, the straight but of the windows and doors: was used, and the finance cases, the straight but of the windows and doors was used, and the finance cases. 4- The student learns about the influencing architectura in Europe. 4- What are the factors affecting Romanesque architectura in Europe. 4- What are the factors affecting Romanesque architectura in Europe. -This style is characteristical by the frequent use of vaults and the invested of wooden ceilings. -The use of intersecting vaults located on a square area, represented by the intersection of two continuous vaults of equal circular text, resulting in an oval intersecting vaults of equal circular text, resulting in an oval intersecting vaults of factors and the architecture in Europe. -The use of intersecting vaults located on a square area, represented by the intersection of two continuous vaults of equal circular text, resulting in an oval intersecting vaults of factors and the reasons for the energence.	L									height, absolute in proportion and its width, the				-	
Aperture: The semicrular achurs used to follow the windows and doors. The aches of al-Boardai focured directly on the capital of the columns, and there is no patina in these halls. In some cases, the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the thin markle or model achurch. I arithuicht and the straight but of the windows and doors was used, and the thin markle or model achurch. I arithuicht and the straight but of the windows and doors was used, and the thin markle or model achurch. I arithuicht and the straight but of the windows and doors was used, and the thin markle or model achurch. I arithuicht and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but is the style of architectural buildings its characteristics, and the straight but form of a value to half a emergence.	L					4								10.7 agros	
Aperture: The semicirular ache will be of the windows and doors. The aches of al-Bawaki focured directly on the capitals of the columns, and there is no patina in these halls. In some cases, the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the thin markle one many the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used, and the straight but of the windows and doors was used and the straight but of the windows and doors and the straight but of the windows and doors was used to fully the straight but of the windows and doors and the straight but of the windows and doors and the straight but of the windows and doors and the straight but of the windows and doors and the straight but of the windows and doors and the straight but of the windows and doors and the straight but of the windows and doors and the straight but of the windows and doors and the straight but of the windows and doors and the straight but of the windows and doors and the straight but of the windows a	1			external appearance was not important to them.		6.73				-				100	
A - The student learns be windows and doors. The action of a robust and the form of a robust and the form of a robust and the form of and the student learns be windows and doors. The action of the student learns be windows and doors. The action of the student learns be windows and doors are used, and the windows and doors was used, and the financial difference of the student learns be windows and doors was used, and the financial difference of the student learns be student learns be windows and doors was used, and the financial difference of the student learns be windows and doors was used, and the financial difference of the student learns be student learns be windows and doors was used, and the student learns be student learns	L			-		6 ag									
about the style of architectural buildings. 2. The student learns 3. The student learns 4. The student learns 4. The student learns 4. The student learns 4. The student learns 5. The student learns 6. The student learns 7. The student learns 6. The student learns 6. The student learns 6. The student learns 6. The student learns 7. The student learns 6. The student learns 7. The student learns 7. The student learns 7. The student learns 7. The student learns 8. The student learns learns 8. The student l	L					8			4.117.4						
A straight but of the windows and doors was used, and the thin marble ornaments were added around the openings. 2. The student learns 2. What is the style of architecture and the style an	L														
2- The student learns 2-What is the style of architectural buildings -Uing pendentives to hold domes on square dalls. Byzantine architectural and thes form arcoss, and there of of the strong for the mergence. architectural architecture in Europe. architectural in the form of small architectural architect	L							-							
2- The student learns 2-What is the style of architectural buildings -Using pendentives to hold domes on square halls. byzantine architecture, in Byzantine -Using pendentives to hold domes on square halls. -What is the style of architectura and the and it has four arms that form a cross, and the roof of the same is the form of a value of half a emergence. -The use of intersecting values located on a square area, represented by the intersection of two continuous values of equal circular text, resulting in an oval intersecting strates. Hypothesis 1- -The site is a large square dia habove the main dome, its characteristics, and a rehitecture and the and thas four arms that form a cross, and the roof of the same strate of these arms is in the form of a value of half a emergence? Office arms were their roofs in the form of small Office arms	L			-					-	-				5	2
2- The student learns 2-What is the style of Hypothesis 1- about the style of architectural buildings -Using pendentives to hold domes on square halls. Byzantine architecture in Byzantine - The site is a large square dish above the main dome, its characteristics, and architecture and the mergence. emergence? dome, so the form of a vault or half a emergence. emergence for the same wave their roofs in the form of small										-				i. de	<1 1 across
architecture in Europe. architecture and the four construction, as it can be built on light packages. Using the reasons for this emergence. continuous values of exact on the four construction, as it can be built on light packages. Using the reasons to reason were their roofs in the form of small	ŀ	2- The student leaves	2-What is the style of				-							8	
and the style of a content of and penetrative monor domines of single penetratives and a children and it has form of a vault or half a emergence? The use of cross ribs to facilitate construction, as it can be built on light packages Using the cross value of the rest single penetratives of single penetratives of the single penetratives of															
its characteristics, and architecture and the and it has four arms that form a cross, and the roof of the reasons for their each of these arms is in the form of a vault or half a emergence? dome, and the four corners between the nave and those arms were their roofs in the form of small the form of s			-												
the reasons for its reasons for their each of these arms is in the form of a vault or half a emergence. emergence? dome, and the four corners between the nave and those arms were their roofs in the form of small and the four of small and the form of small and the			-							Hypothesis 2					
emergence. emergence dome, and the four corners between the nave and those arms were their roots in the form of small 8						60.0				- The use of cross ribs to facilitate construction, as it					
those arms were their roofs in the form of small						1% aj								đ	
raising the arches with a small arrow so that their	ſ	-	-			818								1 44	467 00000
addaes.				domes.						raising the arches with a small arrow, so that their				100	
- The circular openings in the domes and walls				- The circular openings in the domes and walls											
clearly distinguished this style.				clearly distinguished this style.						large arrow.					



e-ISSN: 2395-0056

IRJET Volume: 08 Issue: 08 | Aug 2021

www.irjet.net

p-ISSN: 2395-0072

	IKJEI													
Principles of	1-Introducing students to the principles and concepts of urban planning.	1- What are the concept and principles of urban planning?	 Hypothesis 1 – Urban planning is the strategy adopted by the authonties responsible within the state for making decisions, to develop and direct new urban environments and work to control their growth and expansion. Principles and foundations of urban planning Take into account economic, population, and social aspects, on the one hand, and cultural and psychological aspects, on the other, as essential components of urban environment plans. Dealing with the natural characteristics and geographical locations of those areas, taking into account the locations of those areas, which play an important role in their urban growth, with some having the possibility of expansion and development, and others not. 			53.3% agree	46.67	Computers 3d-max I	l-identify a common program used in architectural design to build virtual models using 3D max.	1. How to build virtual models using the 3ds max program?	1- Hypothesis 1 – Polygon Modeling: Connecting points in 3D space, through segments of lines, to form a network of polygons - The vast majority of 3D models today are built as polygon models, because they are flexible and because computers can process work quickly. However, this method has a problem with curved surfaces, as it uses many polygons to form a streamlined shape. However, this method has a problem with curved surfaces, as it uses many polygons to form a streamlined shape. Hypothesis 2– Curve modeling: The surface is formed by curver, and these curves are affected by the location of the points. The point does not need to touch the surface. The method is called NURBS. The modeling phase means the formation of individual objects that are used later. There are several modeling techniques, including: - Solid Construction Engineering		46.7% agree 53.3% agree	50.00% agrœ
Principles of urban planning			 -Urban planning is one of the responsibilities of the state through local authorities and governments in multiple regions, and it is a governmental function that works to integrate the activities applied by governments and the higher authority in society, to organize and configure residential buildings, universities, schools, transportation, and multiple service centers within the city. Principles and foundations of urban planning 1- Urban planning, like other types of planning, is linked to political, administrative, and financial decisions, in the light of which the powers and roles of planning boiles are defined. 2- Urban planning is a process of interconnected and at several levels/state - region - city. 			40.0 agree	7 agree	Construction I (Constructive Behavior)	1- Introducing the student to the subject of forces, analyzing them, and distributing them to the facilities, as well as knowing the reactions in the facilities.	1-What are the forces affecting the origin, methods of analysis, and distribution, and what are the reactions in the origin?	 Implicit surfaces split surfaces Hypothesis 1 - Forces affecting origin, methods of analysis, distribution, and reactions in origin. The total dead load of the building or structure, which is directed downward by gravity and is offset by the reaction of the soil under the foundation and is upward. 2. The live load and the traumatic load have a similar effect and direction to the dead load, except that the percentage is lower and may cause a little lateral force. The impact of wind force and is pure, its value is the maximum possible from the top of the origin and it is direct. The higher the height of the structure, the greater the influence of the wind and corresponding to the maximum reaction of the soil in the opposite direction to the gust of wind. 		53.3% agree	48.33% agree
			Hypothesis 2 – Forces affecting the origin, methods of analysis, distribution, and reactions in the origin. 1-The effect of earthquake forces and their effect is in two or more directions, and the structure of this type of force is designed to accurately absorb its effect on the structure and prevent it from falling or being damaged. 2-Soil erosion or rining groundwater levels.		,	40.0% agree			 Introducing the architectural student to the batic principles of designing health services. 	1- What are the basic principles for designing health services for buildings?	Hypothesis 2- The effect of elongation on the structure causes a problem in water pipes, sanitary pipes, or electrical installations 1- Hypothesis 1- 1- Determining the amount of daily sewage per capita, for example, 225 litters per day. 2- Determining the peak coefficient i.e. the ratio of maximum discharge to average		46.7% agree 53.3% agree	
	2-Introduce the student to the truese, their types, and the distribution of forces on them.	2- What are the trusses and their types? How are the forces distributed over them?	2. Hypothesis 1 – Trusses, their types, and the way forces are distributed They are members of steel connected by joints and forming adjacent triangles that give trusses a specific shape. There are many types of trusses such as Patt trusses, Finc trusses, Banquen trusses, Howe trusses. Hypothesis 2 –			60.0% agree		Health services			 ratio of maximum uncharge to average discharge. Hypothesis 2- 1- The diameters of the pipes to be used for public sewage lines must be specified. 2- The ratio of the depth of flow in the pipes must be determined and the highest standard for the flow of pipes for all diameters should be adopted. 		2 40.7% agrœ	50.00% agree
	3-Introducing the student to the various internal stresses and the effects generated by the types of forces and torques on the various engineering materials	3- What are the types of internal stresses, forces, and moments generated by the effect of different engineering materials?	Trusses, their types, and the way forces are distributed Trusses bear loads such as concentrated loads that affect the joints of the truss and cause the joints to bear tennile or compressive axial stresses without bending torque. There are many types, Warn trus, and truss, serrated truss, and semi-flat truss.			46.7 agree 53.3% agree 33.3% agree		Air conditioning services	1-Introduce the student to how to calculate the heat loads required for each building and how to choose the air conditioning system necessary to provide the necessary to provide the necessary heat load and overcome it to provide comfort conditions inside the space	1-How do you calculate the building's thermal load? And how to select the air- conditioning system needed to provide thermal comfort conditions.	I- Hypothesis 1 - The thermal loads of the building are calculated? How is the air conditioning system needed to provide the necessary heat load to provide the conditions for thermal confort? This is done after calculating the impact of several factors on the building, and each factor has special equations to accurately calculate, and these factors include: 1. Factors affecting heat gain 2. heat gain 3. Heat transmitted through the building 4. The heat from the am 5. Lighting temperature Hypothesis 2 - This is done after calculating the impact of several factors on the building, and each factor has special		53.3% agrœ	
	4-Introducing the student to the concept of elongation and its effect on some structural parts.	4- What is the effect of elongation and its impact on structural parts?	4. Hypothesis 1 – Because of the different coefficients of expansion of the different internal materials in the composition of the thructural elements, the elongation has a different effect. Thus, the structure is subjected to a varying effect of its elements, which causes the emergence of cracks that weaken the structure of the facility, cause deformation of the architectural form, or destruction of health services, at which point the results are catastrophic.			ee 53.3% agree		~			Inctors on the building, and each inctor has special equations to accurately calculate, and these factors include: 1. Equipment and motors temperature. 2. Heat acquired by people. 3. Ventilation temperature. 4. Heat as a result of air leakage. 5. Heat is acquired through the airways. 6. Heat transfer through the side surfaces. 7. The heat is generated by operations. 8. The size of the central unit.		40.0% agree	



 Weight Nume:
 Weight Nume:<

p-ISSN: 2395-0072

	IRJET VO		. –							-			
	2-How to determine the	2 How dogs the sure	2 Humethanis]					4-The student	4-What are the types	4- Hypothesis 1-			
	2-How to determine the appropriate location for	2-How does the proper location of the air	 Hypothesis 1- Studying the drawings of the building and 					recognizes the types	and methods of	Methods of joining steel elements		2	
	this system so that it	conditioning system be	choosing the best place to put the air					and methods of	connecting steel			cutr	
	does not affect or	determined in a way	handling unit so that the length of the		40.0			connecting steel construction elements	construction elements and the characteristics	-Screw fixing and each has its specification, sizes,		al 3	
	conflict with the	that does not conflict	tracks is as short as possible.		40.0% agrœ			and the characteristics	of each method of	and instructions.		utral 33.3%	
	engineering drawing of	with the building's	2- Calculating the quantities of air that must		8			of each method of	connecting?			~	
	the building.	partitions?	be supplied to each room and deducing					connecting.		Hypothesis 2-	-	-	
			this from the heating and cooling loads.									53.3%	
			Hypothesis 2-							Welding method where each member is connected to		3%	
			1- Selection of the appropriate pathway:							the other by welding.		agrœ	
			peripheral or external.		53.3% agree							8	
			2- Determining the number of air outlets per		% ag			5- Identify ways to	5-What are the ways to	5- Hypothesis 1-			1
			space and select their location to provide the required amount of air and its optimal		.00			protect steel elements	protect steel elements from external	One way to protect steel buildings from external		46.	
			distribution.					from external	conditions?	damage is to paint them with insulation materials		7%	
_	1- Identifying the steel	1- What are the	1- Hypothesis 1 -			+		conditions.		such as dyes and others or to wrap them with other		agrœ	
	structure buildings and	characteristics, advantages, and	One of the positive properties of steel buildings is							· ·		8	
	their characteristics,	disadvantages of steel	that they are economical compared to concrete, with		53.					materials such as cork, wood, and concrete.			
	advantages, and	buildings?	wide spaces, and are characterized by their		53.3% agree					Hypothesis 2-			
	disadvantages.		resistance to earthquakes. As for the negative ones, it		gree					Using cathodic protection, which is a modern and		40.0%	
			needs a fire extinguishing system at all times, its							good method.		100	
			height is limited, and its thermal insulation is weak.			- 1				-		agrœ	
			Hypothesis 2 – One of the positive characteristics of steel buildings is that they are quick to achieve and		5							8	
			steel oundings is that they are quick to achieve and light in weight compared to concrete As for the		1			1-identifying Rococo	1- What are the	Hypothesis 1 -	H	1	
Cons			negative, it has poor thermal insulation.		oarge o		Ŧ	and Baroque	architectural	One of the architectural characteristics of Baroque			
truct					8		listo		characteristics of				
ion o	2- Identifying the types	2-What are the types	2- Hypothesis 1- One of the types of steel structures				Ϋ́,	architecture and its	rococo and baroque architecture?	architecture			
vf bui	of basic structural steel	of basic steel	are trusses or gables. One of the ways to strengthen		33.3	43.	of A	most prominent	architecture:	- Filled with a lot of surprising details, it is			
ilding	structures and their	structures and building	it against stress is to increase the dimensions of the		33.3% agree	3 3%	urch	characteristics.		huge and gives an illusion of wide spaces.			
Construction of buildings IV (steel	basic structural sections	blocks? Ways to	section or its thickness, or both, to strengthen it with		gree	51.08	itec			 Complexity is one of its most important 			
(stee	and methods of	strengthen against stress?	another material such as concrete. Hypothesis 2 –			°	ture						
d stru	strengthening the structures against	sœess?	Hypothesis 2 – One of the types of steel structures is structures				History of Architecture IV (Post-Renaissance Architecture)			characteristics, as it derives its fertility		60.0% agree	50.00% agree
acturn	different stresses.		linked with steel wires. Also, one of the ways to		66.7% agree		(Po			from this complexity, as it combines in its		2%	0%
(s)			strengthen it against stress is to strengthen it with		% ag		st-F			style between unreality and grandeur, and		8	<u>ĝ</u>
			another material such as concrete.		ee.		čena			is full of forms transmitted in space and		8	s
	3-Does the student	3-What are the types	3- Hypothesis 1 -			- 1	E.S.			colors.			
	recognize the types of	of steel sections?	one of the steel sections, section H, L,		8		Ince			Architectural characteristics of rococo architecture			
	steel sections?		one of the sect sections, section 11, 2,		40.0% agrœ		ě.						
					agroc		chit			 Lots of asymmetrical curves and C-shaped 			
							8			spirals.			
			Hypothesis 2-				2						
					Agr		<u>e</u>			 The large use of flowers in decorations, as 			
			Channel and I section		Agree		<u>e</u>)			 The large use of flowers in decorations, as an example: Oaks made of flowers. 			
					Agree		<u>e</u>)	2- Recognize how to	2- How 3D models are				
			Channel and I section		Agree		e	show default models	2- How 3D models are shown in 3ds max	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive——>object		53.3	
			Channel and I section Hypothesis 2 –		Agree			-		an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing		53.3% ag	
			Channel and I section Hypothesis 2 – Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he		Agree			show default models		an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive——>object		53.3% agree	56.6
			Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the		Agree			show default models		an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing		53,3% agree	56.67% a
			Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification.		Agree			show default models		an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes.		agrœ	56.67% agree
			Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. - It shows movement and vitality to a great				Computers 3d-max II	show default models		an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us		agrœ	56.67% agree
			Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. - It shows movement and vitality to a great extent, as it rages and irritates emotions,		Agree 40.0% a			show default models		an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes		53.3% agree 60.0% agree	56.67% agree
			Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. - It shows movement and vitality to a great					show default models using 3ds max.	shown in 3ds max	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry —>> 3d shapesha		agrœ	56.67% agree
			Channel and I section Hypothesis 2 – Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanchifastion. - It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical art,					show default models		an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> 3d shapesha 1- Hypothesis 1-		agrœ	56.67% agree
			Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination.					show default models using 3ds max.	shown in 3ds max	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron,		agrœ	56.67% agree
			Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifertations of sanchifastion It shows movement and vitality to a geat extent, as it rages and initiates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in geat coordination. Architectural characteristics of rococo architecture.					show default models using 3ds max.	shown in 3ds max	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—>> geometry—>>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main		agrœ	56.67% agree
			Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifertations of sanctification It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical art, which generally simulate: the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture Chinese and Japanese decorative drawings.					show default models using 3ds max.	shown in 3ds max	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extract the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while		agrœ	56.67% agree
			Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural disarcteristics of rocco architecture Chinese and Japanese decorative drawings Wann pastel colors (white, yellow, cream,					show default models using 3ds max.	shown in 3ds max	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—>> geometry—>>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main		agrœ	56.67% agree
	Gaussi	2.105.00	Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rocco architecture Chinese and Japanese decorative drawings Warm pastel colors (white, yellow, cream, pearl grey).					show default models using 3ds max.	shown in 3ds max	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main armanent, and its distances are close together, while the iron is spread in the long direction at greater		agrœ	56.67% agree
	2.General characteristics and	2-What are the	 Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, peair grey). Hypothesis 1 - 					show default models using 3ds max.	shown in 3ds max	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extract the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater distance because it in not major. Hypothesis 2- Two-way ceilings have their main armament in two		agree 60.0% agree 46	56.67% agree
	2-General characteristics and features according to	architectural features	 Channel and I section Hypothesis 2 – Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanchifastion. It shows movement and vitality to a great extent, as it rages and irritates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent resility in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, pearl grey). Hypothesis 1 – Using glass and iron in buildings. 		40.0% agree	_		show default models using 3ds max.	shown in 3ds max	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main manament, and its distances are close together, while the iron is spread in the long direction at greater distances because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and at equal distances. There are different		agree 60.0% agree 46.7%	56.67% agree
	characteristics and	architectural features and characteristics of	Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifertations of sanctification It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical art, which generally simulate: the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture Chinese and Japanese decorative drawings Warm partle closes (white, yellow, cream, pearl grey). 2. Hypothesis 1 Using glass and iron in buildings It was characterized by the great size and		40.0% agree	_		show default models using 3ds max.	shown in 3ds max	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—>> geometry—>>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater diracted because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and a tequal distances. There are different design methods based on global codes, including		agree 60.0% agree 46	56.67% agree
	characteristics and features according to	architectural features and characteristics of architecture in the period of the 18th and	 Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanchifastion. It shows movement and vitality to a great extent, as it rages and initates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reslity in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, pearl grey). Hypothesis 1 - Using glass and iron in buildings. 			_		show default models using 3ds max.	shown in 3ds max 1-How to design concrete ceilings with loads transmitted in one direction and two directions?	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—>geometry—>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater distances because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and at equal distances, There are different design methods based on global codes, including American, British, and others.		agree 60.0% agree 46.7%	56.67% agree
	characteristics and features according to the period of the eighteenth and nineteenth century's	architectural features and characteristics of architecture in the	 Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of roocco architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, pearl grey). Hypothesis 1 - Using glass and iron in buildings. If was characterized by the great size and simplicity of the geometric forms and the 		40.0% agree	_	Computers 3d-max II	show default models using 3ds max.	shown in 3ds max	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—>> geometry—>>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater diracted because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and a tequal distances. There are different design methods based on global codes, including		agree 60.0% agree 46.7%	56.67% agree
	characteristics and features according to the period of the eighteenth and	architectural features and characteristics of architecture in the period of the 18th and	 Channel and I section Hypothesis 2 – Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. It shows movement and vitality to a great extent, as it rages and irritates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, pastigrey). Using glass and iron in buildings. It was characterized by the great size and simplicity of the generative size and simplicity of the generative size and 		40.0% agree	_	Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1-How to design concrete ceilings with loads transmitted in one direction and two directions? 2-How to analyze and	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extract the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater distance because it in ont major. Hypothesis 2- Two-way ceilings have their main armament in two directions and at equal distances. There are different design methods based on global codes, including American, British, and others. 2- Hypothesis 1-		agree 60.0% agree 46.7%	56.67% agree
	characteristics and features according to the period of the eighteenth and nineteenth century's	architectural features and characteristics of architecture in the period of the 18th and	Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifectations of sanctfication If shows movement and vitality to a great extent as it rages and initiates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of roocco architecture Chinese and Japanese decorative drawings Warm pastel colors (white, yellow, cream, pearl grey). 2. Hypothesis 1 Using glass and iron in buildings If was characterized by the great size and simplicity of the geometric forms and the Greek (especially Donc) geometric shapes and orders. Hypothesis 2- They are distinguished by the dramatic use of		40.0% agree 60.0% agree	_	Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1.How to design concrete ceilings with loads transmitted in one direction and two directions? 2.How to analyze and design thresholds for	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extract the amount of iron, the short direction is spread and thus is the main amament, and its distances are close together, while the iron is spread in the long direction at greater distances because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and at equal distances. There are different design methods based on global codes, including American, British, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the second is the resistance		agree 60.0% agree 46.7% agree	% aginee
	characteristics and features according to the period of the eighteenth and nineteenth century's	architectural features and characteristics of architecture in the period of the 18th and	 Channel and I section Hypothesis 2 – Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of roccoc architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, peail grey). 2. Hypothesis 1 – Using glass and iron in buildings. If was characterized by the great size and simplicity of the generative shapes and orders. Hypothesis 2- Hypothesis 2- Hypothesis 4- They are distinguished by the dramatic use of columns, Roman detailing, and a preference for 		40.0% agree 60.0% agree	_	Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1.How to design concrete ceilings with loads transmitted in one direction and two directions? 2.How to analyze and design thresholds for	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—=>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater distance because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and at equal distances. There are different design methods based on global codes, including American, Britch, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating method. In the first method, it is assumed that the		agree 60.0% agree 46.7% agree	% aginee
	characteristics and features according to the period of the eighteenth and nineteenth century's	architectural features and characteristics of architecture in the period of the 18th and	Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture - Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifectations of sanctfication If shows movement and vitality to a great extent as it rages and initiates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of roocco architecture Chinese and Japanese decorative drawings Warm pastel colors (white, yellow, cream, pearl grey). 2. Hypothesis 1 Using glass and iron in buildings If was characterized by the great size and simplicity of the geometric forms and the Greek (especially Donc) geometric shapes and orders. Hypothesis 2- They are distinguished by the dramatic use of		40.0% agree	_	Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1.How to design concrete ceilings with loads transmitted in one direction and two directions? 2.How to analyze and design thresholds for	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes preat—> Society and the program screen, we choose the geometry menu that shows us three-dimensional shapes preat—> Society and the program screen, we choose the geometry menu that shows us three-dimensional shapes preat—> Society and the shows us the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater directions and at equal distances. There are different design method: based on global codes, including American, British, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the second is the resistance method. In the first method, it is assumed that the proportion between the stresses and strains of		agree 60.0% agree 46.7%	56.67% agree 46.67% agree
	characteristics and features according to the period of the eighteenth and nineteenth century's	architectural features and characteristics of architecture in the period of the 18th and	 Channel and I section Hypothesis 2 – Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of roccoc architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, peail grey). 2. Hypothesis 1 – Using glass and iron in buildings. If was characterized by the great size and simplicity of the generative shapes and orders. Hypothesis 2- Hypothesis 2- Hypothesis 4- They are distinguished by the dramatic use of columns, Roman detailing, and a preference for 		40.0% agree 60.0% agree	_	Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1.How to design concrete ceilings with loads transmitted in one direction and two directions? 2.How to analyze and design thresholds for	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—=>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater distance because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and at equal distances. There are different design methods based on global codes, including American, Britch, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating method. In the first method, it is assumed that the		agree 60.0% agree 46.7% agree	% aginee
	characteristics and features according to the period of the eighteenth and nineteenth century's	architectural features and characteristics of architecture in the period of the 18th and 19th centuries?	 Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifectations of sanctfication. If shows movement and vitality to a great extent, as it rages and initiate semotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, pearl grey). Hypothesis 1 - Using glass and iron in buildings. If was characterized by the great size and simplicity of the geometric forms and the Greek (especially Doric) geometric shapes and orders. Hypothesis 2- They are distinguished by the dramatic use of columns, Roman detailing, and a preference for white walls. 		40.0% agree 60.0% agree	_		show default models using 3ds max.	shown in 3ds max 1.How to design concrete ceilings with loads transmitted in one direction and two directions? 2.How to analyze and design thresholds for	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater diractics because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and a tequal distances. There are different design methods based on global codes, including American, British, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the second is the resistance method. In the first method, it is assumed that the proportion between the stresses and strains of concrete and iron is linear, and the use of this method inminibed until it was included in the appendix in the code and was called the alternative		agree 60.0% agree 46.7% agree	% aginee
	characteristics and features according to the period of the eighteenth and nineteenth century's architecture.	architectural features and characteristics of architecture in the period of the 18th and 19th centuries?	 Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical at, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, pearl grey). Hypothesis 1 - Using glass and iron in buildings. If was characterized by the great size and simplicity of the generative shares and ocders. Hypothesis 2. They are distinguished by the dramatic use of columns, Roman detailing, and a preference for white walls. Hypothesis 1 - Hypothesis 1 - 		40.0% agree 60.0% agree	_	Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1.How to design concrete ceilings with loads transmitted in one direction and two directions? 2.How to analyze and design thresholds for	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—>>geometry—>>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater diractic because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and at equal distances. There are different design methods based on global codes, including American, British, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the second is the resistance method lin the first method, it is assumed that the proportion between the stresses and strains of concrete and iron is linear, and the use of this method diminished until it was included in the appendix in the code and was called the alternative method.		agree 60.0% agree 46.7% agree	% aginee
	characteristics and features according to the period of the eighteenth and nineteenth century's architecture.	architectural features and characteristics of architecture in the period of the 18th and 19th centuries?	 Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical at, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, pearl grey). Hypothesis 1 - Using glass and iron in buildings. If was characterized by the great size and simplicity of the generative shares and ocders. Hypothesis 2. They are distinguished by the dramatic use of columns, Roman detailing, and a preference for white walls. Hypothesis 1 - Hypothesis 1 - 		40.0% agree 60.0% agree 40.0% agree		Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1.How to design concrete ceilings with loads transmitted in one direction and two directions? 2.How to analyze and design thresholds for	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—>> 3d shapesha 1- Hypothesis 1- One-way roof: are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main armament, and its distances. There are different design entropy based in the long direction at greater distances because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and at equal distances. There are different design enthods based on global codes, including American, British, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the second is the resistances method. In the first method, it is assumed that the proportion between the schesses and strains of concrete and iron is linear, and the use of this method diminished until it was included in the appendix in the code and was called the alternative method.		agree 60.0% agree 46.7% agree	% aginee
	characteristics and features according to the period of the eighteenth and nineteenth century's architecture.	architectural features and characteristics of architecture in the period of the 18th and 19th centuries?	 Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifectations of sanctfication. It shows movement and vitality to a great extent, as it rages and initiate semotions, and in this way contradicts classical art, which generally simulate: the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, pearl grey). Hypothesis 1 - Using glass and iron in buildings. It was characterized by the great size and simplicity of the geometric forms and the Greek (especially Doric) geometric shapes and orders. Hypothesis 2- They are distinguished by the dramatic use of columns, Roman detailing, and a preference for white walls. I - Hypothesis 1 - Principles of urban design -Accessibility provides a safe and easy way of moving among areas. 		40.0% agree 60.0% agree 60		Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1.How to design concrete ceilings with loads transmitted in one direction and two directions? 2.How to analyze and design thresholds for	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extract the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater distance because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and at equal distances. There are different design methods based on global codes, including American, British, and other. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the second is the resistance method. In the first method, it is assumed that the proportion between the stresses and strains of concrete and iron is linear, and the use of this method. Hypothesis 2- In the second method (resistance method), structural		agree 60.0% agree 46.7% agree	% aginee
Price	characteristics and features according to the period of the eighteenth and mineteenth century's architecture.	architectural features and characteristics of architecture in the period of the 18th and 19th centuries?	 Channel and I section Hypothesis 2 – Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical at, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, peail prey). Hypothesis 1 – Using glass and iron in buildings. If was characteristic by the great size and simplicity of the geometric forms and the Greek (especially Doric) geometric ishaps and orders. Hypothesis 2 – They are distinguished by the dramatic use of column, Roman detailing, and a preference for white walls. I – Hypothesis 1 – Principles of turban design – Accessibility provides a safe and easy way of moving among areas. -Civil society, providing spaces for people where 		40.0% agree 60.0% agree 60		Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1.How to design concrete ceilings with loads transmitted in one direction and two directions? 2.How to analyze and design thresholds for	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—>> 3d shapesha 1- Hypothesis 1- One-way roof: are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main armament, and its distances. There are different design entropy based in the long direction at greater distances because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and at equal distances. There are different design enthods based on global codes, including American, British, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the second is the resistances method. In the first method, it is assumed that the proportion between the schesses and strains of concrete and iron is linear, and the use of this method diminished until it was included in the appendix in the code and was called the alternative method.		agree 60.0% agree 46.7% agree 46.7% agree 53.3%	% aginee
Principles	characteristics and features according to the period of the eighteenth and mineteenth century's architecture.	architectural features and characteristics of architecture in the period of the 18th and 19th centuries?	 Channel and I section Hypothesis 2 – Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. It shows movement and vitality to a great extent, as it rages and irritates emotion, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yullow, cream, pearl gev). Hypothesis 1 – Using glass and iron in buildings. It was characterized by the great size and simplicity of the geometric shapes and orders. Hypothesis 2: They are distinguished by the dramatic use of columns, Roman detailing, and a preference for white walls. I. Hypothesis 1 – Principles of urban design -Accessibility provides a safe and easy way of moving among areas. Civil society, providing spaces for people where they can meet freely with each other as equal 		40.0% agree 60.0% agree 40.0% agree		Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1.How to design concrete ceilings with loads transmitted in one direction and two directions? 2.How to analyze and design thresholds for	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes preat—> Seconetry —>> 3d shapesha 1- Hypothesis 1- One-way roof are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater directions and at equal distances. There are different design methods based on global codes, including American, British, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the sceond is the resistance method. In the first method, it is assumed that the proportion between the stresses and statums of concrete and iron is linear, and the use of this method diminished until it was included in the appendix in the code and was called the alternative method. Hypothesis 2- In the second method (resistance method), structural organs are designed and analyzed based on		agree 60.0% agree 46.7% agree	% aginee
Principles of ut	characteristics and features according to the period of the eighteenth and mineteenth century's architecture.	architectural features and characteristics of architecture in the period of the 18th and 19th centuries?	 Channel and I section Hypothesis 2 – Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical at, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, peail prey). Hypothesis 1 – Using glass and iron in buildings. If was characteristic by the great size and simplicity of the geometric forms and the Greek (especially Doric) geometric ishaps and orders. Hypothesis 2 – They are distinguished by the dramatic use of column, Roman detailing, and a preference for white walls. I – Hypothesis 1 – Principles of turban design – Accessibility provides a safe and easy way of moving among areas. -Civil society, providing spaces for people where 		40.0% agree 60.0% agree 60		Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1.How to design concrete ceilings with loads transmitted in one direction and two directions? 2.How to analyze and design thresholds for	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes preat—> Sourcery—>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main arranament, and its distances are close together, while the iron is spread in the long direction at greater directions and a equal distances. There are different design methods based on global codes, including American, British, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the second is the resistance method. In the first method, it is assumed that the proportion between the stresses and strains of concrete and iron is linear, and the use of this method diminished until it was included in this method. Hypothesis 2- In the second and method (vesistance method), structural organs are designed and analyzed based on maximum loads that the structure bears upon failure, besides, we obtain the maximum loads by unliplying the expected loads over the life of the		agree 60.0% agree 46.7% agree 46.7% agree 53.3%	% aginee
Principles of urban d	characteristics and features according to the period of the eighteenth and mineteenth century's architecture.	architectural features and characteristics of architecture in the period of the 18th and 19th centuries?	 Channel and I section Hypothesis 2 - Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifertations of sanctification. It shows movement and vitality to a great extent, as it rages and initiate semotions, and in this way contradicts classical art, which generally simulate: the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, pearl grey). Hypothesis 1 - Using glass and iron in buildings. It was characterized by the great size and simplicity of the geometric forms and the Greek (especially Doric) geometric shapes and orders. Hypothesis 2 - They are distinguished by the dramatic use of columns, Roman detailing, and a preference for white walls. Hypothesis 1 - Principles of urban design -Accessibility provides a safe and easy way of moving among areas. Grittosciety, providing spaces for people where they can meet feely with each other as equal citizen, is an important component in building a social city. 		40.0% agree 60.0% agree 60		Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1-How to design concrete ceilings with loads transmitted in one direction and two directions? 2-How to analyze and design thresholds for flexion.	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—>>geometry—>>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater diractic because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and at equal distances. There are different design methods based on global codes, including American, British, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the second is the resistance method lin the first method, it is assumed that the proportion between the stresses and strains of concrete and iron is linear, and the use of this method diminished until it was included in the appendix in the code and was called the alternative method. Hypothesis 2- In the second method (resistance method), structural organs are designed and analyzed based on maximum loads that the structure bears upon failure, besides, we obtain the maximum loads by multiplying the expected loads over the life of the structure by factors called safety factors.		agree 60.0% agree 46.7% agree 46.7% agree 53.3%	% aginee
Principles of urban design	characteristics and features according to the period of the eighteenth and mineteenth century's architecture.	architectural features and characteristics of architecture in the period of the 18th and 19th centuries?	 Channel and I section Hypothesis 2 – Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifertations of sanchifastion. It shows movement and vitality to a geat extent, as it rages and initiates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, pearl gey). Hypothesis 1 – Using glass and iron in buildings. It was characterized by the great size and simplicity of the grometric forms and the Greek (especially Doric) geometric shapes and orders. Hypothesis 1 – Principles of urban design -Accessibility provides a safe and easy way of moving among areas. Givil society, providing spaces for people where they can meet fiely with each other as equal citizens, is an important component in building a social city. Hypothesis 2 – Urban design is the link between city planning and 		40.0% agree 60.0% agree 40.0% agree 60.7% agree 60.7% agree	60,006	Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1-How to design concrete ceilings with loads transmitted in one direction and two directions? 2-How to analyze and design thresholds for flexion.	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—>> 3d shapesha 1- Hypothesis 1- One-way roof: are designed after calculating the loads on the roof, then extracts the anount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater distances because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and at equal distances. There are different design methods based on global codes, including American, British, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the second is the resistance method. In the first method, it is assumed that the proportion between the stresses and strains of concrete and iron is linear, and the use of this method diminished until it was included in the appendix in the code and was called the alternative method. Hypothesis 2- In the second method (vesistance method), structural organs are designed and analyzed based on maximum loads that the structure bears upon failure, besides, we obtain the maximum loads by multiplying the expected load over the life of the structure by factors calles tafety factors. 3- Hypothesis 1-		agree 60.0% agree 46.7% agree 46.7% agree 53.3% agree 53.3% agree	% aginee
Principles of urban design	characteristics and features according to the period of the eighteenth and mineteenth century's architecture.	architectural features and characteristics of architecture in the period of the 18th and 19th centuries?	 Channel and I section Hypothesis 2 – Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. It shows movement and vitality to a great extent, as it rages and initiates emotions, and in this way contradicts classical at, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, peail grey). Hypothesis 1 – Using glass and iron in buildings. If was characteristic by the great size and simplicity of the geometric forus and the Greek (especially Doric) geometric inhes and orders. Hypothesis 1 – Hypothesis 1 – They are distinguished by the dramatic use of columns, Roman detailing, and a preference for white walls. Hypothesis 1 – Hypothesis 1 – Hypothesis 2 – Civil society, providing spaces for people where they can meet feely with each other as equal citizens, is an important component in building a social civy. Hypothesis 2 – Uving design is the link between civit planning and architectural design. 		40.0% agree 60.0% agree 60	60,006	Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1-How to design concrete ceilings with loads transmitted in one direction and two directions? 2-How to analyze and design thresholds for flexion.	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—> geometry—>> 3d shapesha 1- Hypothesis 1- One-way roof: are designed after calculating the loads on the roof, then extracts the anount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater distances because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and at equal distances. There are different design methods based on global codes, including American, British, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the second is the resistance method. In the first method, it is assumed that the proportion between the stresses and strains of concrete and iron is linear, and the use of this method diminished until it was included in the appendix in the code and was called the alternative method. Hypothesis 2- In the second method (vesistance method), structural organs are designed and analyzed based on maximum loads that the structure bears upon failure, besides, we obtain the maximum loads by multiplying the expected load over the life of the structure by factors calles tafety factors. 3- Hypothesis 1-		agree 60.0% agree 46.7% agree 46.7% agree 53.3%	% aginee
Principles of urban design	characteristics and features according to the period of the eighteenth and mineteenth century's architecture.	architectural features and characteristics of architecture in the period of the 18th and 19th centuries?	 Channel and I section Hypothesis 2 – Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifertations of sanchifastion. It shows movement and vitality to a geat extent, as it rages and initiates emotions, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, pearl gey). Hypothesis 1 – Using glass and iron in buildings. It was characterized by the great size and simplicity of the grometric forms and the Greek (especially Doric) geometric shapes and orders. Hypothesis 1 – Principles of urban design -Accessibility provides a safe and easy way of moving among areas. Givil society, providing spaces for people where they can meet fiely with each other as equal citizens, is an important component in building a social city. Hypothesis 2 – Urban design is the link between city planning and 		40.0% agree 60.0% agree 40.0% agree 60.7% agree 60.7% agree	60,006	Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1-How to design concrete ceilings with loads transmitted in one direction and two directions? 2-How to analyze and design thresholds for flexion. 3-How is shear thresholds analyzed	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes preat—> geometry—>>> 3d shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main armament, and its distances are close together, while the iron is spread in the long direction at greater distances because it is not major. Hypothesis 2- Two-way ceilings have their main armament in two directions and a tequal distances. There are different design methods based on global codes, including American, British, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the second is the resistance method. In the first method, it is assumed that the proportion between the stresses and strains of concrete and iron is linear, and the use of this method diminished until it was included in the appendix in the code and was called the alternative method. Hypothesis 2- In the second method (resistance method), structural organs are designed and analyzed based on maximum loads that the structure bears upon failure, besides, we obtain the maximum loads by multiplying the expected loads over the life of the structure by factors called aftery factors. 3- Hypothesis 1- This is done through several stages, the first of		agree 60.0% agree 46.7% agree 46.7% agree 53.3% agree 53.3% agree	% aginee
Principles of urban design	characteristics and features according to the period of the eighteenth and mineteenth century's architecture.	architectural features and characteristics of architecture in the period of the 18th and 19th centuries?	 Channel and I section Hypothesis 2 – Architectural characteristics of Baroque architecture Has a very close relationship with the surrounding environment, which he actively transforms into one of the manifestations of sanctification. It shows movement and vitality to a great extent, as it rages and irritates emotion, and in this way contradicts classical art, which generally simulates the beauty of the material world in images that represent reality in great coordination. Architectural characteristics of rococo architecture. Chinese and Japanese decorative drawings. Warm pastel colors (white, yellow, cream, pearl gev). Hypothesis 1 – Using glass and iron in buildings. It was characterized by the great size and simplicity of the geometric othms and the Greek (especially Doir) geometric shapes and orders. Hypothesis 1 – Principles of urban design Accessibility provides a safe and easy way of moving among areas. Civil society, providing spaces for people where they can meet freely with each other as equal citizen, is an important component in building a social city. Hypothesis 2 – -Urban design is the link between city planning and architectural design. There must be public spaces for the city to have a 		40.0% agree 60.0% agree 40.0% agree 60.7% agree 60.7% agree	60.00 agree	Computers 3d-max II	show default models using 3ds max.	shown in 3ds max 1-How to design concrete ceilings with loads transmitted in one direction and two directions? 2-How to analyze and design thresholds for flexion. 3-How is shear thresholds analyzed	an example: Oaks made of flowers. Hypothesis 1- Through the list of standard primitive—>object types, any model is formed from the existing geometric shapes. Hypothesis 2- From the great menu that appears on the program screen, we choose the geometry menu that shows us three-dimensional shapes great—>> Sd shapesha 1- Hypothesis 1- One-way roofs are designed after calculating the loads on the roof, then extracts the amount of iron, the short direction is spread and thus is the main amament, and its distances are close together, while the iron is spread in the long direction at greater directions and at equal distances. There are different design methods based on global codes, including American, Britich, and others. 2- Hypothesis 1- Reinforced concrete beams are analyzed and designed in two ways, the first is called the operating stresses method, and the second is the resistance method. In the first method, it is assumed that the proportion between the stresses and strains of concrete and iron is linear, and the use of this method. Hypothesis 2- In the scond method (resistance method), structural organs are designed and analyzed based on maximum loads that the structure bears upon failure, besides, we obtain the maximum loads by multiplying the expected load over the life of the structure by factors called aftery factors. 3- Hypothesis 1- This is done through several stages, the first of which is to find the minimum shear reinforcement,		agree 60.0% agree 46.7% agree 46.7% agree 53.3% agree 53.3% agree	% aginee



e-ISSN: 2395-0056

Volume: 08 Issue: 08 | Aug 2021

www.irjet.net

p-ISSN: 2395-0072

1 In the analysis, the dimensions of the thresholds are recognized as well as the rebar, but the amount of the applied forces is unknown. The magnitude of the gratest shear forces that the section can bear is calculated by this analysis process. 4. The student learned to determine threshold depth according to the deviation requirement. 6. Hypothesis 1 - The continuous threshold depth according to the deviation requirement. 0. Checking the threshold depth according to the deviation requirement. 2. C. Calculation of the loads applied to the threshold is based on more than two documents and its design is as follows: 1. Checking the threshold is based on more than two documents and its design is as follows: 1. Checking the threshold is based on more than two documents and its design is as follows: 1. Shear design 3. Threshold analysis. 5. the impact of elongation on structural parts 1. Shear design 3. Threshold analysis. 1. Shear design 5. the impact of elongation on structural parts 1. Shear design 3. The design 1. The design 3. The design 3. The design 1. The design 1. The design 3. The design 3. The design 1. The design 1. The mass of elongation on structural parts parts. Swhat's the effect of structure appearance of crack that waken the structure of the facility or curve deformation of the structure of the facility or curve deformation of the structure of the facility or curve deformation of the structure of the facility or curve deformation of the structure of the facility or curve deformation of the structure of the structure of elongation here appearance of crack that waken	stu	Educational objectives	Possible problems	problem-solving hypotheses	Str		<u>。</u>		
4. The student learned to 4. How are continuous 4. Hypotesis 1. The student learned to 4. Hypotesis 1. 4. The student learned to 4. How are continuous 4. Hypotesis 1. The continuous threshold depth according to the deviation requirements. 1. Checking the function requirements. 1. Checking the function requirements. 2. Calculation of the loads applied to the threshold. 1. Threshold analysis. 5.the impact of 5. What's the effect of elongation on structural parts. 1. Shear design 3. The design 1. The impact of elongation on structural parts. 1. The impact of clongation on structural parts. 1. The impact of elongation on structural parts. 1. The impact of clongation on structural parts. 1. The impact of if the elongation on structural parts. 1. The impact of if the impact of clongation on structural parts. 1. The impact of if the impact of clongation on structural parts. 1. The impact of if the imp				The impact of elongation leads to the destruction of samitary installations, pipes, or electrical installations, and at that time the results are				40 % agree	
4-The student learned to design continuous threshold: 4-How are continuous threshold designed? 4-How are continuous threshold design adoption of the hypothesis 1 - The continuous threshold is based on more than two documents and its design is as follows: 1 1 2 2- Calculated by this analysis 		elongation on structural	elongation on	The impact of elongation on structural parts Due to the different coefficients of expansion of the different internal materials in the composition of the structural elements, the elongation has a different effect. Thus, the structure is subjected to a varying effect of its elements, which causes the appearance of cracks that weaken the structure of the facility or cause deformation of the architectural form. Therefore, it affects the parts of the building, then the results will be disastrous.				40 % agree	
4-The student learned to design continuous 4- How are continuous 4- Hypothesis 1 - The continuous threshold is based on more than two documents and its design is as follows: 1 1 0 - - Calculated the state of the specific on the				Hypothesis 2- The continuous threshold is based on more than two documents and its design is as follows: 1- skew design 2- Shear design 3- The design				46.7% agree	
In the analysis, the dimensions of the thresholds are recognized as well as the rebar, but the amount of the applied forces is unknown. The magnitude of the greatest shear forces that the section can bear is calculated by this analysis process.		design continuous		The continuous threshold is based on more than two documents and its design is as follows: 1. Checking the threshold depth according to the deviation requirements. 2. 2. Calculation of the loads applied to the threshold.				%26.7 agree	
TT 4 1 0				recognized as well as the rebar, but the amount of the applied forces is unknown. The magnitude of the greatest shear forces that the section can bear is calculated by this analysis process.				46.7% agree	

study vocabulary	Educational objectives	Possible problems		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Result	Final result
	1-Intellectual and practical recognition of urban design principles.	1-What are the principles of urban design intellectually, and how are they applied in practice?	 Hypothesis 1- Accessibility Provide a safe and easy way to move between spaces and areas. Creating a comfortable environment that includes pedestrian and bicycle streets, and scale human buildings to create a strong sense of place. Civil society, providing spaces for people where they can meet fieely with each other as equal citizens, forming an important element in building a social city. 						%60.0 agree	
Architectural Design			 Hypothesis 2 - Providing a mix of housing patterns and housing densities for all groups, and securing housing near the streets to encourage social interaction. Securing a high density of housing to reduce land consumption to provide spaces between areas to enable efficient use of services and resources and to provide commercial services while ensuring easy access. Intelligent transport: the hierarchy of roads, public transport network, and environmentally friendly street design to encourage bicycle use and walking as daily short-distance transport 						%60.0 agree	53.33 agree
	2-guide the student to the methods of connecting to the city's general fabric and the extension of the visual and kanetic axes in it and its impact on the formulation of the fabric of the specific environment to be	2-What are the ways to connect to the city's general fabric and the extensions of visual and kinetic axes?	2- Hypothesis 1 – Urban development: In urban development, the city's general fabric must be connected to the extensions of the visual and motor axes where the connection is made through the set of actions to ensure physical continuity so that we do not notice any intersection between the old urban fabric and the formally updated physical fabric by Functional integration of forces affecting the urban environment (social, environmental and economic).						53, 3 agrœ	

et.r	net		p-ISSN: 2	3	9	5-	00)72	-
	Manufactoria de la constata	1 Hanna and Hadamara	1 Henrelsonia 1		_	_	_	_	_
	1-Measuring horizontal and vertical distances	1-How are distances, horizontal and vertical	 Hypothesis 1 – Measure distances, horizontal and vertical angles, 						
	and angles and beams	angles, and beams	and beams, and project them using surveying						
	and projecting them.	measured and	devices.					53.3%	
		projected using	-The few straight distances are measured using the					6 agroe	
		surveying devices?	iron gauge bar. The long distances are measured					8	
			either by the total station device or by the satellite system.						
			Hypothesis 2 –				+	-	-
			Measure distances, horizontal and vertical angles,						
			and beams, and project them using surveying						
			devices.					53.3%	
			The horizontal angle is also measured by a (total						
			station) or theodolite device or, if there are beams, the device is moved to another point, the angle of					agree	
			deviation is calculated and the desired angle is						
			measured.						
	2-Measuring and	How to measure and	2- Hypothesis 1-			H	+	+	55
Area	determining the levels	determine the levels	Measuring and determining the levels and					6.7	55.56% agree
-	and elevations of	and determine the	determining the heights of buildings and land uses.					46.7% agree	gree
	buildings and land uses.	heights of buildings and land uses?	This is done using the leveling device.					aai	
		and land uses?	Hypothesis 2-				+	-	-
			Measuring and determining the levels and					53	
			determining the heights of buildings and land uses.					53.3% :	
			This is done using the full station or using the					agree	
			satellite						
	-	3-How are the	3- Hypothesis 1 -					4	
	latitudinal sections, volumes, and areas of	longitudinal and latitudinal sections,	Calculation of longitudinal and latitudinal sections, volumes, and areas of regular and irregular shapes.					46.7%	
	regular and irregular	volumes, and areas of	All this is done using the laws of survey engineering					agroe	
	shapes.	regular and irregular	and practically by surveying devices					8	
		shapes calculated?	Hypothesis 2 -				+	+	1
			Calculation of longitudinal and latitudinal sections,					80.0	
			volumes, and areas of regular and irregular shapes.					.0% agree	
			Irregular shapes can be calculated by mathematical integration.					Ince	
		Stage three	-	%	46.	57 a	етее		
			-			ert se			
Edu		1 he fo	our-stage	1	LIK	erts	case		
2									Ratio
8									
Educational									
tional									
tional	designed within the		Hypothesis 2-				_		
tional	designed within the specifications,		Hypothesis 2- or link via						
tional	-							4	
tional	specifications,		or link via					40.09	
tional	specifications, standards, and		or link via Site integration is related to the contextual					40.0% ag	
tional	specifications, standards, and contemporary visions		or link via Site integration is related to the contextual					40.0% agrœ	
tional	specifications, standards, and contemporary visions and in line with the		or link via Site integration is related to the contextual					40.0% agrœ	
tional	specifications, standards, and contemporary visions and in line with the controls and limitations		or link via Site integration is related to the contextual					40.0% agrœ	
tional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's	1-What is the role of	or link via Site integration is related to the contextual					agrœ	
tional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality.	1-What is the role of the internal spaces on	or link via Site integration is related to the contextual characteristics that the urban fabric carries.					agrœ	
tional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to		or link via Site integration is related to the contextual characteristics that the urban fabric carries.					agrœ	
cional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior	the internal spaces on	or link via Site integration is related to the contextual characteristics that the urban fabric carries.					40.0% agree 40.0% agree	
cional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a	the internal spaces on	or link via Site integration is related to the contextual characteristics that the urban fabric carries.					agrœ 40.0% agree	
tional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. I-Introduce students to the great role of interior spaces on the user, as a modern man spends	the internal spaces on	or link via Site integration is related to the contextual characteristics that the urban fabric carries.					agrœ 40.0% agree	
tional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends most of his time	the internal spaces on	or link via Site integration is related to the contextual characteristics that the urban fabric carries.					agrœ 40.0% agree	
tional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends most of his time	the internal spaces on	or link via Site integration is related to the contextual characteristics that the urban fabric carries.					agrœ	
tional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends most of his time	the internal spaces on	or link via Site integration is related to the contextual characteristics that the urban fabric carries.					agrœ 40.0% agree	-
tional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the with the municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends most of his time indoors.	the internal spaces on the user?	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1 – Providing comfort and entertainment. Hypothesis 2 – Function and beauty.					agrœ 40.0% agree	
tional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends most of his time indoors. 2- Enabling students to	the internal spaces on the user? 2-What are the	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1 – Providing comfort and entertainment. Hypothesis 2 – Function and beauty. 2- Hypothesis 1-					agrœ 40.0% agree	
tional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior a modern man spends modern tan spends most of his time indoors. 2- Enabling students to understand the	the internal spaces on the user? 2-What are the foundations of interior	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1 – Providing comfort and entertainment. Hypothesis 2 – Function and beauty. 2- Hypothesis 1- 1- Choose the colors. Colors are an important					agrœ 40.0% agree	
tional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2-Enabling students to understand the foundations of interior	the internal spaces on the user? 2-What are the foundations of interior spaces designs and	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1- Providing comfort and entertainment. Hypothesis 2- Function and beauty. 2- Hypothesis 1- 1- Choose the colors. Colors are an important element in the life and activity of the					agrœ 40.0% agree	
tional	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1- Providing comfort and entertainment. Hypothesis 2- Function and beauty. 2- Hypothesis 1- 1- Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations					agree 40.0% agree 60.0% agree	
	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1 – Providing comfort and entertainment. Hypothesis 2 – Function and beauty. 2- Hypothesis 1- 1- Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations and psychological effect. Thus, before start					agree 40.0% agree 60.0% agree	
	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior spaces dealt with in	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1- Providing comfort and entertainment. Hypothesis 2- Function and beauty. 2- Hypothesis 1- 1- Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations and psychological effect. Thus, before start choosing the colors of the walls or					agree 40.0% agree 60.0% agree	
	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior spaces dealt with in terms of functional,	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1 – Providing comfort and entertainment. Hypothesis 2 – Function and beauty: 2- Hypothesis 1- 1- Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations and psychological effect. Thus, before start choosing the colors of the walls or furniture, the patterns for choosing colors					agrœ 40.0% agree	53.33
	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior spaces dealt with in terms of functional, aesthetic, symbolic,	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1. Hypothesis 1 – Providing comfort and entertainment. Hypothesis 2 – Function and beauty. 2. Hypothesis 1- 1. Choose the colors. Colors are an important element in the life and activity of the place, and each color has its comotations and psychological effect. Thus, before start choosing the colors of the walls or furniture, the patterns for choosing colors are.					agree 40.0% agree 60.0% agree	53.33 apr
	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior spaces dealt with in terms of functional, aesthetic, symbolic,	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1- Providing comfort and entertainment. Hypothesis 2- Function and beauty. 2- Hypothesis 1- 1- Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations and psychological effect. Thus, before start choosing the colors of the walls or furniture, the patterns for choosing colors are. 2- Lighting. Lighting in space is one of the					agree 40.0% agree 60.0% agree	53.33 agree
tional interior spaces Design	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior spaces dealt with in terms of functional, aesthetic, symbolic,	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1 – Providing comfort and entertainment. Hypothesis 2 – Function and beauty. 2- Hypothesis 1- 1- Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations and psychological effect. Thus, before start choosing the colors of the walls or fumiture, the patterns for choosing colors are. 2- Lighting. Lighting in space is one of the most important elements and fundamentals of internal decoration. There are three					agree 40.0% agree 60.0% agree	53.33 agree
	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior spaces dealt with in terms of functional, aesthetic, symbolic,	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1- Providing comfort and entertainment. Hypothesis 2- Function and beauty. 2- Hypothesis 1- 1- Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations and psychological effect. Thus, before start choosing the colors of the walls or furniture, the patterns for choosing colors are. 2- Lighting Lighting in space is one of the most important elements and fundamentals of internal decoration. There are three types of industrial lighting, Guided					agree 40.0% agree 60.0% agree	53.33 agree
	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior spaces dealt with in terms of functional, aesthetic, symbolic,	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1. Hypothesis 1 – Providing comfort and entertainment. Hypothesis 2 – Function and beauty. 2. Hypothesis 1- 1. Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations and psychological effect. Thus, before star choosing the colors of the walls or furniture, the patterns for choosing colors are. 2. Lighting, Lighting in space is one of the most important elements and fundamentals of internal decoration. There are three types of industrial lighting, Guided lighting, important lighting, and mood					agree 40.0% agree 60.0% agree	53.33 agree
	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior spaces dealt with in terms of functional, aesthetic, symbolic,	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1. Hypothesis 1- Providing comfort and entertainment. Hypothesis 2- Function and beauty. 2. Hypothesis 1- 1. Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations and psychological effect. Thus, before start choosing the colors of the walls or furniture, the patterns for choosing colors are. 2. Lighting. Lighting in space is one of the most important elements and fundamentals of internal decoration. There are three types of industrial lighting, Guided lighting.					agree 40.0% agree 60.0% agree	53.33 agree
	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior spaces dealt with in terms of functional, aesthetic, symbolic,	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1- Providing comfort and entertainment. Hypothesis 2- Function and beauty. 2- Hypothesis 1- 1- Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations and psychological effect. Thus, before start choosing the colors of the walls or furniture, the patterns for choosing colors are. 2- Lighting. Lighting in space is one of the most important elements and fundamentals of internal decoration. There are three types of industrial lighting, Guided lighting. Hypothesis 2-					agree 40.0% agree 60.0% agree	53.33 agree
	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior spaces dealt with in terms of functional, aesthetic, symbolic,	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1- Providing comfort and entertainment. Hypothesis 2- Function and beauty. 2- Hypothesis 1- 1- Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations and psychological effect. Thus, before start choosing the colors of the walls or furniture, the patterns for choosing colors are. 2- Lighting. Lighting in space is one of the most important elements and fundamentals of internal decoration. There are three types of industrial lighting, Guided lighting, important lighting, and mood lighting.					agree 40.0% agree 60.0% agree	53,33 agree
	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior spaces dealt with in terms of functional, aesthetic, symbolic,	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1 - Providing comfort and entertainment. Hypothesis 2 - Function and beauty. 2- Hypothesis 1- 1- Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations and psychological effect. Thus, before start choosing the colors of the walls or furniture, the patterns for choosing colors are. 2- Lighting, Lighting in space is one of the most important elements and fundamentals of internal decoration. There are three types of industrial lighting, Guided lighting. Hypothesis 2 - Unit Unity is another point of the basics of interior					agree 40.0% agree 60.0% agree	53.39 agree
	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior spaces dealt with in terms of functional, aesthetic, symbolic,	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1. Hypothesis 1- Providing comfort and entertainment. Hypothesis 2- Function and beauty. 2. Hypothesis 1- 1. Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations and psychological effect. Thus, before start choosing the colors of the walls or furniture, the patterns for choosing colors are. 2. Lighting, Lighting in space is one of the most important elements and fundamentals of internal decoration. There are three types of industrial lighting, Guided lighting, important lighting, and mood lighting. Hypothesis 2 - Unit Unity is another point of the basics of interior decoration and does not necessarily mean the					agree 40.0% agree 60.0% agree \$3.3% agree	53.33 agree
	specifications, standards, and contemporary visions and in line with the controls and limitations in force in the city's municipality. 1-Introduce students to the great role of interior spaces on the user, as a modern man spends moot of his time indoors. 2- Enabling students to understand the foundations of interior designs and how to deal	the internal spaces on the user? 2-What are the foundations of interior spaces designs and how are the design problems of interior spaces dealt with in terms of functional, aesthetic, symbolic,	or link via Site integration is related to the contextual characteristics that the urban fabric carries. 1- Hypothesis 1 - Providing comfort and entertainment. Hypothesis 2 - Function and beauty. 2- Hypothesis 1- 1- Choose the colors. Colors are an important element in the life and activity of the place, and each color has its connotations and psychological effect. Thus, before start choosing the colors of the walls or furniture, the patterns for choosing colors are. 2- Lighting, Lighting in space is one of the most important elements and fundamentals of internal decoration. There are three types of industrial lighting, Guided lighting. Hypothesis 2 - Unit Unity is another point of the basics of interior					agree 40.0% agree 60.0% agree	53.39 agree

furniture in all rooms.

general view must suggest continuity and there must be common points where the eye moves from one place to another, such as painting walls in one color, or the floors are the same type of ore used in



e-ISSN: 2395-0056

IRJET Volume: 08 Issue: 08 | Aug 2021

www.irjet.net

p-ISSN: 2395-0072

				_										
	1-Introducing the	1-What are the	1- Hypothesis 1 -								Hypothesis 2 -			
	student to the principles	housing principles and	Housing principles								The architecture of modernity expressed the benefit			
	and different patterns of	patterns and the design	 Compact fabric and population density 			3					and clarified the material society's need for buildings that achieve utilitarian functional content. As for			
	housing in general, such	and planning variables	 Providing gardens and public spaces. 			3.3%					that achieve uniitarian runchonal content. As for durability, it emerged in the new technology through			
	as single-family	affecting these	Housing patterns			8					the use of concrete and steel structures, which		00.0%	60.0
	housing, multi-family	patterns?	-At the unit level (separate room, apartment).			8					illustrate the beauty of the complementarity of the		0%0 8	3
	housing, and the		-At the residential building level (independent unit,								form with the practical functional requirements. As		Igree	
	planning and design		combined unit).								for the suitability, it oscillated in the modernist			
	variables affecting each.		Hypothesis 2 -		++						architecture between the fulfillments of the material			
			Housing principles								need of the community with the structural-functional			
			Diversity of means of transportation.			8					integration of the building.			
			Diversity of land uses.			0.0%		2-T1	he student	2-How have	2-Hypothesis 1 -			_
			Housing patterns			âg			gnizes	technological and	Modern building materials and construction methods			
			At the level of the housing group (semi-attached			e o		tech	nological and	scientific	have influenced an evolution in the form of the architectural space, which includes the most			
₹						00.00	ŝ	scie	ntific developments	developments affected	important elements: walls, ceilings, and the ground,			
Housing	0.77		dwellings, class dwellings, quadruple dwellings).		++	6	2	in	modernist	modernist	where new forms of flexibility and multiple variations in the shape of the vacuum have emerged.		40.7%	5
00	2-The student	2-What are the	2- Hypothesis 1-			53		arch	itecture.	architecture?	This is reflected in the different and multiplicity of		- age	
	recognizes some of the	housing standards and	Vertical movement limiters, immediate evacuation,			3%					construction methods and building materials, so different structural systems appeared, such as the		6	8
	housing criteria and	determinants	and fire Determinants.			agrœ					structural system, trusses, space structures, stretched			
	determinants associated	associated with the				8					structural membranes, and blown structural membranes. The impact of the construction method			
	with the final design	final design decisions	Hypothesis 2-								on the architectural form is evident.			
	decisions of the	of the residential	The determinants of environmental housing,								Hypothesis 2 –			
	residential building,	building?	especially in hot, dry areas. It's like using building								The influence of technology on architecture has led mainly to the creation of different architectural		00.0	50
	such as vertical		materials that suck up the heat during the day and			s					models. As the methods, materials, and properties of		ag	
	mobility, immediate		lose it at night, besides, reducing the areas of			53.3					materials have evolved, building forms have changed from prehistoric architecture to the present		8	3
	evacuation, fire		external facades exposed to external heat.			3% ag			troducing the	1-What does the	day.			
	determinants, and some					agree			5	1-What does the natural environment	1- Hypothesis 1 - Definition of architecture:			
	of the characteristics of								ent to a broad rmation base of the	natural environment have to do with	Definition of architecture: Architecture is defined as the art of construction, and			
	housing in hot, dry								rmation base of the	architecture and how	Architecture is defined as the art of construction, and this art varies from country to country: European			
	areas.							the	interrelationship	do natural factors	architecture, Asian architecture, city to city in the			
	l-Introduction of the	1-What is modern	1-Hypothesis 1 -				_		veen the natural	affect architecture at	same country, rural buildings are different from			
~								\geq	ironment and	the regional level in	urban buildings.			
Arch	student to the	architecture and has	Modernist architecture is an architectural period with					E .	itecture at the	general and the local	The relationship between architecture and the		÷	*
itea	dimensions of	modernity architecture	a trend that includes a group of schools and					÷	onal level in general	level of Iraq in	environment.		0.7%	46 7% aone
lue	modernist architecture	achieved	architectural styles that have similar characteristics,					22	the local level for	particular?	environmental architecture:		agn	
The	according to the basic	(functionality,	and that share primarily the simplification of forms			53.3% agree	2	0	regions of Iraq in	,	The relationship is with the so-called construction		80	8
Alo.	terms that build the	durability, and	and the rejection of ornamentation.			%a	R.		icular		technique, which is all of the building-related			
Ĩ.	architectural text such	beauty)?	The beauty of things is the result of the compatibility			(gree					applications by dealing with the following diverse			
rchi	as functionality,		of parts of something according to certain relationships between parts, considered in certain			~ *	·				environmental elements:			
tech	durability, and beauty.		proportions (such as ratio and proportionality in the								- Climate (above ground temperature, underground			
пео			human body). Beauty should link beauty and architecture, not an external description.								temperature)			
5			architecture, not an external description.								- energy			
						_								
			Hypothesis 2-					3-De	etermining the basic	3-What are the basic	3- Hypothesis 1 -			
			Hypothesis 2- Natural factors affect architecture by gaining heat						etermining the basic essing lines in	3-What are the basic treatments in	3-Hypothesis l – The basic treatments in residential and public			
								proc	-					
			Natural factors affect architecture by gaining heat					proc resid	essing lines in	treatments in	The basic treatments in residential and public			
			Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors:					proc resid build	essing lines in lential and public	treatments in residential and public	The basic treatments in residential and public buildings that are adopted in the designs to reach			
			Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1- Earth's morphology: Leaning Earth facing					proc resid build stude	essing lines in lential and public lings so that the	treatments in residential and public buildings that are	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental		00	6
			Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1- Earth's morphology: Leaning Earth facing the Sun gains more energy than leaning Earth in the opposite direction.					proc resid build stude in 1	essing lines in lential and public lings so that the ent can adopt them	treatments in residential and public buildings that are adopted in designs to	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects.		00.7%	2
			Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1- Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2- Orientation of buildings: The orientation is					proc resid build studd in 1 whet	essing lines in lential and public lings so that the ent can adopt them his design work,	treatments in residential and public buildings that are adopted in designs to reach spaces where	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces		3	2
			Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1- Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2- Orientation of buildings: The orientation is that the largest facade of the building is					proc resid build studd in 1 whet	essing lines in lential and public dings so that the ent can adopt them his design work, ther at the academic l or the application	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of		00.7% agree	2
			Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1- Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2- Orientation of buildings: The orientation is					proc resid build studd in 1 whet level	essing lines in lential and public dings so that the ent can adopt them his design work, ther at the academic l or the application	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. These are some things that we can		3	2
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1- Earth's morphology: Leaning Earth facing the Sun gains more energy than leaning Earth in the opposite direction. 2- Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the buildings is 					proc resid build studd in 1 whet level	essing lines in lential and public dings so that the ent can adopt them his design work, ther at the academic l or the application	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls.		3	2
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1- Earth's morphology: Leaning Earth facing the Sun gains more energy than leaning Earth in the opposite direction. 2- Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the buildings is directed towards the sunsie, there is no 					proc resid build studd in 1 whet level	essing lines in lential and public dings so that the ent can adopt them his design work, ther at the academic l or the application	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological confort system (thermal		3	2
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of building: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the building is directed towards the sunning, there is no doubt that it acquires its morning heat until 					proc resid build studd in 1 whet level	essing lines in lential and public dings so that the ent can adopt them his design work, ther at the academic l or the application	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological comfort system (thermal comfort).		3	2
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the buildings is directed towards the sumise, there is no doubt that it acquires its morning heat until the sum turns to the west in the second half 			s		proc resid build studd in 1 whet level	essing lines in lential and public dings so that the ent can adopt them his design work, ther at the academic l or the application	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological comfort system (thermal comfort). - Humidity.		3	2
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1- Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2- Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the buildings is directed towards the sunrise, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires 			53.39		proc resid build studd in 1 whet level	essing lines in lential and public dings so that the ent can adopt them his design work, ther at the academic l or the application	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological comfort system (thermal comfort). - Humidity. Hypothesis 2 –		3	2
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1- Earth's morphology: Leaning Earth facing the Sun gains more energy than leaning Earth in the opposite direction. 2- Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the buildings is directed towards the sumise, there is no doubt that it acquires its morning heat until the sum turns to the west in the second half of the day, and the west may cardinal acquires the heat of the sun in that period. 			3%		proc resid build studd in 1 whet level	essing lines in lential and public dings so that the ent can adopt them his design work, ther at the academic l or the application	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological comfort system (thermal comfort). - Humidity. Hypothesis 2 – Protection methods for access to internal spaces that		./% agree	7% auree
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directons, if the largest facade of the buildings is directed towards the suming heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of buildings: The cube of 			53.3% agree		proc resid build studd in 1 whet level	essing lines in lential and public dings so that the ent can adopt them his design work, ther at the academic l or the application	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological comfort system (thermal comfort). - The physiological confort system (thermal confort). - Humidity. Hypothesis 2 – Protection methods for access to internal spaces that take into account human physiological requirements		. /% agree 40.	7% aoree 46
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of building: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the building is directed towards the sumise, there is no doubt that it acquires its morning heat until the sum turns to the west in the second half of the day, and the western facade acquires the heat of the sum intat period. 3. Mass formation of building: The cube of a single building gains ambient heat 			3%		proc resid build studd in 1 whet level	essing lines in lential and public dings so that the ent can adopt them his design work, ther at the academic l or the application	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. These are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological confort system (thermal comfort). - The physiological confort system (thermal comfort). - Humidity. Hypothesis 2 – Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control		.7% agree 40.7%	7% auree 46 7%
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the buildings is directed towards the sumise, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of buildings in a motient heat through five faces, but if a set of eight 			3%		proc resid build studd in 1 whet level	essing lines in lential and public dings so that the ent can adopt them his design work, ther at the academic l or the application	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological comfort system (thermal comfort). - The physiological confort system (thermal confort). - Humidity. Hypothesis 2 – Protection methods for access to internal spaces that take into account human physiological requirements		. /% agree 40.	7% auree 46 7%
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1- Earth's morphology: Learning Earth ficing the Sun gains more energy than learning Earth in the opposite direction. 2- Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the buildings is directed towards the sumise, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3- Mass formation of buildings: The cube of a single building time theat through five faces, but if a set of eight cubes theoretically converges, the surfaces 			3%		proc resid build studd in 1 whet level	essing lines in lential and public dings so that the ent can adopt them his design work, ther at the academic l or the application	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. These are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological confort system (thermal comfort). - The physiological confort system (thermal comfort). - Humidity. Hypothesis 2 – Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control		.7% agree 40.7%	7% auree 46 7%
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: Earth's morphology: Leaning Earth facing the Sun gains more energy than leaning Earth in the opposite direction. Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the buildings is directed towards the sumise, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the westem facade acquires the heat of the sun in that period. Mass formation of buildings: The cube of a single building cains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to 			3%		proc resid build studi in 1 whet level level	esting lines in lential and public lings so that the east can adopt them this design work, ther at the academic l or the application L	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach combridale inner spaces for humans - Environmental Controls. - The physiological confort system (thermal comfort). - Humidity. Hypothesis 2 – Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation.		.7% agree 40.7%	7% auree 46 7%
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the buildings is directed towards the sumine, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of buildings: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the 			3%		proc resid buik stud in 1 whet level level	esting lines in lential and public lings so that the east can adopt them this design work, ther at the academic l or the application L	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account?	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological comfort system (thermal comfort). - Humidity. Hypothesis 2- Protection methods for access to internal spaces that take into account human physiological requirements inched elements of environmental control - Solar radiation. - Air movement (ventilation)		.7% agree 40.7%	7% auree 46 7%
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of building: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the building is directed towards the sumise, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun intat period. 3. Mass formation of building: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquiresiton number up to twenty. Accordingly, the closeness of the buildings or their proximity to each other 			3%		proc resid buik stud in 1 whet level level	esting lines in lential and public lings so that the ent can adopt them this design work, ther at the academic l or the application L	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological confort system (thermal comfort). - Humidity. Hypothesis 2 – Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (ventilation) Hypothesis 1 –		.7% agree 40.7%	7% auree 46 7%
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of building:: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the buildings is directed towards the sumitse, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of building: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the buildings or their proximity to each other so that one shades the other helps reduce 			3%		proc resid buik stud in 1 whet level level	esting lines in lential and public lings so that the ent can adopt them this design work, ther at the academic l or the application l.	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological comfort system (thermal comfort). - The physiological comfort system (thermal comfort). - Humidity. Hypothesis 2 – Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (ventilation) Hypothesis 1 – At the design level, evolution has led to the		.7% agree 40.7%	7% auree 46 7%
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of building: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the building is directed towards the sumise, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun intat period. 3. Mass formation of building: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquiresiton number up to twenty. Accordingly, the closeness of the buildings or their proximity to each other 			3%		proc resid build in 1 whet level level fintro techn as appl	essing lines in leathal and public fings so that the ent can adopt them his design work, ther at the academic l or the application l. ducing students to nology (in general) thought and	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design,	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the huma being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological confort system (thermal comfort). - Humidity. Hypothesis 2 - Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (ventilation) Hypothesis 1- At the design level, evolution has led to the emergence of computers through which all building		.7% agree 40.7%	7% auree 46 7%
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of building:: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the buildings is directed towards the sumitse, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of building: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the buildings or their proximity to each other so that one shades the other helps reduce 			3%		Intro tech Intro Intro Intro tech appi Intro tech Intro	essing lines in lential and public things so that the ent can adopt them the design work, ther at the academic l or the application l.	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological comfort system (thermal comfort). - Humidity. Hypothesis 2 - Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (ventilation) Hypothesis 1 - At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms		-7% agree 40. 7% agree	7% anno 46 7% anno
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the buildings is directed towards the sumise, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sum in that period. 3. Mass formation of buildings: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the buildings or their proximity to each other so that one shades the other helps reduce heat gain. 			3%		proc resid build studi in in level level level as as as tsuc techn as as partice partice partice	essing lines in lential and public lings so that the east can adopt them this design work, ther at the academic l or the application L obtaining students to noology (in general)) thought and ication, and thural technology in	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and performance	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological comfort system (thermal confort). - Humidity. Hypothesis 2 - Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (ventilation) Hypothesis 1 - At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms of implementation and performance, the industrial		-7% agree 40. 7% agree	7% anno 46 7% anno
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the buildings is directed towards the sumine, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of buildings: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the buildings or their proximity to each other so that one shades the other helps reduce heat gain. 4. Design: It is represented in the design's 			3%		procession of the second secon	esting lines in lential and public lings so that the ent can adopt them this design work, ther at the academic l or the application l. ducing students to nology (in general) thought and iccation, and trual technology in cular, and the	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and performance (specifically the	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortble inner spaces for humans - Environmental Controls. - The physiological comfort system (thermal comfort). - The physiological comfort system (thermal confort). - Humidity. Hypothesis 2 – Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Salar radiation. - Air movement (ventilation) Hypothesis 1 – At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms of implementation and performance, the industrial revolution helped increase energy and the		-7% agree 40. 7% agree	7% anno 46 7% anno
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the building is directed towards the summing heat until the sum turns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of buildings: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the buildings or their proximity to each other so that one shades the other helps reduce heat gain. 4. Design: It is represented in the design's ability to provide a courtpard (space area) 			3%		procession of the second secon	esting lines in lential and public lings so that the ent can adopt them this design work, ther at the academic l or the application l. ducing students to nology (in general) thought and iccation, and their cubar constraints of the cubar, and the	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and performance (opecifically the modernist and	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the huma being. These are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological confort system (thermal comfort). - The physiological confort system (thermal comfort). - Humidity. Hypothesis 2 – Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (ventilation) Hypothesis 1 – At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms of implementation and performance, the industrial revolution helped increase energy and the development of building technology and materials,		-7% agree 40. 7% agree	7% auree 46 7%
			 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth ficing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of building: The orientation is that the largest facade of the building is towards one of the four cardinal direction,, if the largest facade of the building is directed towards the sumise, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun inth period. 3. Mass formation of building: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the buildings: it is represented in the design's ability to provide a courtyard (space area) in the middle of the building because this 			3%		Intro technology Bailding Tochnology Bailding Tochnology prim	esting lines in lential and public fings so that the ent can adopt them the design work, ther at the academic l or the application l. ducing students to nology (in general) thought and ication, and trual technology in cular, and the so of technology	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and performance (opecifically the modernist and	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological comfort system (thermal comfort). - Humidity. Hypothesis 2 - Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (ventilation) Hypothesis 1 - At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms of implementation and performance, the industrial revolution helped increase energy and the development of building technology and materials, leading to rapid implementation of cities and the extension of architecture (the use of steel, iron, and		-7% agree 40. 7% agree	7% auron 46 7% auron
	2-The student's	2-What are the	 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of building:: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the building is directed towards the sumitse, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of building:: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the buildings or their proximity to each other so that one shades the other helps reduce heat gain. 4. Design: It is represented in the design's ability to provide a courtyard (space area) in the middle of the building because this courtyard works to store cold air at night 			3%		Intro technology Bailding Tochnology Bailding Tochnology prim	essing lines in lential and public lings so that the east can adopt them this design work, ther at the academic l or the application L ducing students to nology (in general) thought and ication, and thural technology in cular, and the es of technology lopment from strive and smanship to	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and performance (opecifically the modernist and	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological confort system (thermal confort). - Humidity. Hypothesis 2 – Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (ventilation) Hypothesis 1 – At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms of implementation and performance, the industrial revolution helped increase energy and the development of building technology and materials, leading to rapid implementation of cities and the extension of architecture (the use of steel, iron, and reinforced cement increased the spaces between		-7% agree 40. 7% agree	7% auron 46 7% auron
	2-The student's recognition of climate	2-What are the methods of protection	 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth ficing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the building is directed towards the sumise, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sum in that period. 3. Mass formation of buildings: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the buildings or their proximity to each other so that one shades the other helps reduce heat gain. 4. Design: It is represented in the design's ability to provide a courtyrad (space area) in the middle of the sul and the day. 			3%		Balling Ballin	essing lines in lential and public lings so that the east can adopt them this design work, ther at the academic l or the application L ducing students to nology (in general) thought and ication, and thural technology in cular, and the es of technology lopment from strive and smanship to	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and performance (opecifically the modernist and	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the human being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological comfort system (thermal comfort). - Humidity. Hypothesis 2 - Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (ventilation) Hypothesis 1 - At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms of implementation and performance, the industrial revolution helped increase energy and the development of building technology and materials, leading to rapid implementation of cities and the extension of architecture (the use of steel, iron, and		-7% agree 40. 7% agree	7% anno 46 7% anno
	recognition of climate		 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of building: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the building is directed towards the summing heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of buildings: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the buildings or their proximity to each other so that one shades the other helps reduce heat gain. 4. Design: It is represented in the design's ability to provide a courtyard (space area) in the middle of the building because this courtyard works to store cold air at night to be used during the day. 2. Hypothesis 1 – 1. Choosing the appropriate lighting, as lighting is 			3% agree		Building Technology	essing lines in learnal and public fings so that the ent can adopt them his design work, ther at the academic l or the application l. ducing students to nology (in general) thought and ication, and trual technology in cular, and the so of technology lopment from airve and smannlip to en	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and performance (opecifically the modernist and	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the huma being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - Environmental Controls. - The physiological confort system (thermal comfort). - Humidity. Hypothesis 2 - Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (venhlation) Hypothesis 1 - At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms of implementation and performance, the industrial revolution helped increase energy and the development of building technology and materials, leading to rapid implementation of cities and the extension of architecture (the use of steel, iron, and reinforced cement increase the spaces between columns and the establishment of multi-story buildings), and new industries and scientific		-7% agree 40. 7% agree	7% auron 46 7% auron
	recognition of climate negatives and positives	methods of protection and access to internal	 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth ficing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of building: The orientation is that the largest facade of the building is towards one of the four cardinal direction,, if the largest facade of the building is directed towards the sumise, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun inth period. 3. Mass formation of building: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the building: It is represented in the design's ability to provide a courtyard (space area) in the middle of the building because this courtyard works to store cold air at night to be used during the day. 2. Hypothesis 1 – 1. Choosing the appropriate lighting, as lighting is considered one of the basic elements in interior 			3% agree 73		Building Technology	essing lines in leathal and public fings so that the ent can adopt them his design work, ther at the academic l or the application l. ducing students to nology (in general) thought and ication, and trual technology in cular, and the es of technology lopment from itive and smanship to en	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and performance (opecifically the modernist and	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the huma being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - The physiological confort system (thermal comfort). - The physiological confort system (thermal comfort). - Humidity. Hypothesis 2 – Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (ventilation) Hypothesis 1 – At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms of implementation and performance, the industrial plans are completed before implementation. Interns of implementation of cities and the extension of architecture (the use of steel, iron, and participated before the spaces between columns and the establishment of multi-story		-7% agree 40. 7% agree	7% auron 46 7% auron
	recognition of climate	methods of protection and access to internal spaces that take into	 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of building:: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the building is directed towards the sunnise, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of building:: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converge, the surfaces prome to thermal acquisition number up to twenty. Accordingly, the closeness of the building to provide a courtyard (space area) in the middle of the building because this courtyard works to store cold air at night to be used during the day. 2. Hypothesis 1 – 1. Choosing the appropriate lighting, as lighting is considered one of the basic elements in interior design and one of the most important configuration 			3% agree 73.3%		Building Technology	essing lines in learnal and public fings so that the ent can adopt them his design work, ther at the academic l or the application l. ducing students to nology (in general) thought and ication, and trual technology in cular, and the so of technology lopment from airve and smannlip to en	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and performance (opecifically the modernist and	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the huma being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - Environmental Controls. - The physiological confort system (thermal comfort). - Humidity. Hypothesis 2 - Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (venhlation) Hypothesis 1 - At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms of implementation and performance, the industrial revolution helped increase energy and the development of building technology and materials, leading to rapid implementation of cities and the extension of architecture (the use of steel, iron, and reinforced cement increase the spaces between columns and the establishment of multi-story buildings), and new industries and scientific		-7% agree 40. 7% agree	7% auron 46 7% auron
	recognition of climate negatives and positives and the method of protection to reach	methods of protection and access to internal spaces that take into account human	 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the building is directed towards the sumise, there is no doubt that it acquires it morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of buildings: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the buildings or their proximity to each other so that one shades the other helps reduce heat gain. 4. Design: It is represented in the design's ability to provide a countyard (space area) in the middle of the building the day. 2. Hypothesis 1 – 1Choosing the appropriate lighting, as lighting is considered one of the basic elements in interior design and one of the basic elements in interior data in architectural space. 			3% agree 73		Building Technology	essing lines in learnal and public fings so that the ent can adopt them his design work, ther at the academic l or the application l. ducing students to nology (in general) thought and ication, and trual technology in cular, and the so of technology lopment from airve and smannlip to en	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and performance (opecifically the modernist and	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the huma being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - Environmental Controls. - The physiological confort system (thermal comfort). - Humidity. Hypothesis 2 - Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (venhlation) Hypothesis 1 - At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms of implementation and performance, the industrial revolution helped increase energy and the development of building technology and materials, leading to rapid implementation of cities and the extension of architecture (the use of steel, iron, and reinforced cement increase the spaces between columns and the establishment of multi-story buildings), and new industries and scientific		-7% agree 40. 7% agree	7% auron 46 7% auron
	recognition of climate negatives and positives and the method of protection to reach planning and design	methods of protection and access to internal spaces that take into account human physiological	 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the building is directed towards the sumine, there is no doubt that it acquires its morning heat until the sun tuns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of buildings: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the buildings or their proximity to each other so that one shades the other helps reduce heat gain. 4. Design: It is represented in the design's ability to provide a courtyard (space area) in the middle of the building because this courtyard works to store cold air at might to be used during the day. 2. Hypothesis 1 – 1. Choosing the appropriate lighting as lighting is considered one of the most important configuration data in architectural space. 2. Colors: Color plays an important role in giving 			3% agree 73.3%		Building Technology	essing lines in learnal and public fings so that the ent can adopt them his design work, ther at the academic l or the application l. ducing students to nology (in general) thought and ication, and trual technology in cular, and the so of technology lopment from airve and smannlip to en	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and performance (opecifically the modernist and	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the huma being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - Environmental Controls. - The physiological confort system (thermal comfort). - Humidity. Hypothesis 2 - Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (venhlation) Hypothesis 1 - At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms of implementation and performance, the industrial revolution helped increase energy and the development of building technology and materials, leading to rapid implementation of cities and the extension of architecture (the use of steel, iron, and reinforced cement increase the spaces between columns and the establishment of multi-story buildings), and new industries and scientific		-7% agree 40. 7% agree	7% auron 46 7% auron
	recognition of climate negatives and positives and the method of protection to reach planning and design values may be the basis	methods of protection and access to internal spaces that take into account human	 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of building: The orientation is that the largest facade of the building is towards one of the four cardinal direction,, if the largest facade of the building is directed towards the sunnise, there is no doubt that it acquires its morning heat until the sun turns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of buildings: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the suffaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the buildings car their proximity to each other so that one shades the other helps reduce heat gain. 4. Design: It is represented in the design's ability to provide a courtyard (space area) in the middle of the building because this courtyard works to store cold air at night to be used during the day. 2. Hypothesis 1 – 1. Choosing the appropriate lighting, as lighting is considered one of the basic elements in interior design and one of the most important configuration data in architectural space. 			3% agree 73.3%		Building Technology	essing lines in learnal and public fings so that the ent can adopt them his design work, ther at the academic l or the application l. ducing students to nology (in general) thought and ication, and trual technology in cular, and the so of technology lopment from airve and smannlip to en	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and performance (opecifically the modernist and	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the huma being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - Environmental Controls. - The physiological confort system (thermal comfort). - Humidity. Hypothesis 2 - Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (venhlation) Hypothesis 1 - At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms of implementation and performance, the industrial revolution helped increase energy and the development of building technology and materials, leading to rapid implementation of cities and the extension of architecture (the use of steel, iron, and reinforced cement increase the spaces between columns and the establishment of multi-story buildings), and new industries and scientific		-7% agree 40. 7% agree	7% auron 46 7% auron
	recognition of climate negatives and positives and the method of protection to reach planning and design	methods of protection and access to internal spaces that take into account human physiological	 Natural factors affect architecture by gaining heat from the Sun, where it is done by several factors: 1. Earth's morphology: Learning Earth facing the Sun gains more energy than learning Earth in the opposite direction. 2. Orientation of buildings: The orientation is that the largest facade of the building is towards one of the four cardinal directions, if the largest facade of the building is directed towards the sumine, there is no doubt that it acquires its morning heat until the sun tuns to the west in the second half of the day, and the western facade acquires the heat of the sun in that period. 3. Mass formation of buildings: The cube of a single building gains ambient heat through five faces, but if a set of eight cubes theoretically converges, the surfaces prone to thermal acquisition number up to twenty. Accordingly, the closeness of the buildings or their proximity to each other so that one shades the other helps reduce heat gain. 4. Design: It is represented in the design's ability to provide a courtyard (space area) in the middle of the building because this courtyard works to store cold air at might to be used during the day. 2. Hypothesis 1 – 1. Choosing the appropriate lighting as lighting is considered one of the most important configuration data in architectural space. 2. Colors: Color plays an important role in giving 			3% agree 73.3%		Building Technology	essing lines in learnal and public fings so that the ent can adopt them his design work, ther at the academic l or the application l. ducing students to nology (in general) thought and ication, and trual technology in cular, and the so of technology lopment from airve and smannlip to en	treatments in residential and public buildings that are adopted in designs to reach spaces where environmental aspects are taken into account? How has technology affected architecture in terms of design, implementation, and performance (opecifically the modernist and	The basic treatments in residential and public buildings that are adopted in the designs to reach spaces that take into account the environmental aspects. Methods of protection and access to internal spaces take into account the physiological requirements of the huma being. There are some things that we can control to reach comfortable inner spaces for humans - Environmental Controls. - Environmental Controls. - The physiological confort system (thermal comfort). - Humidity. Hypothesis 2 - Protection methods for access to internal spaces that take into account human physiological requirements include elements of environmental control - Solar radiation. - Air movement (venhlation) Hypothesis 1 - At the design level, evolution has led to the emergence of computers through which all building plans are completed before implementation. In terms of implementation and performance, the industrial revolution helped increase energy and the development of building technology and materials, leading to rapid implementation of cities and the extension of architecture (the use of steel, iron, and reinforced cement increase the spaces between columns and the establishment of multi-story buildings), and new industries and scientific		-7% agree 40. 7% agree	7% auron 46 7% auron

architecture and the

local climate in the terior spaces

architecture that must be well chosen in concert with

the colors of walls.



e-ISSN: 2395-0056

Volume: 08 Issue: 08 | Aug 2021

www.irjet.net

p-ISSN: 2395-0072

											_	 _
	architecture at the design, executive, and		Hypothesis 2 - implementation and performance level							Hypothesis 2 –		
	design, executive, and performance levels.		Evolution in building materials.							Architecture has a great impact on society and		
	performance levels.		Technology allows for the improvement of the							enables architects to build buildings that are more		
			performance of some old materials, such as							suitable for residents, more comfortable, and more		
			reinforced cement, wood, or iron, except for some							attractive. For example, that the windows in the		
			obvious developments.							place be large and easy to open to allow natural		
			-							daylight to enter the house, which raises the level of		
			- The emergence of many manufacturing		66.7% agre					melatonin in the body, which regulates the biological		
			materials such as plastics with different		38 %					clock, increases sleep efficiency, and increases the		
			compositions and their flexibility in		gree					secretion of serotonin, it is the hormone that emits a sense of happiness, and the innovative and artistic		
			processing, casting, and coloring.							design is also something to be loved unless of		
			 Development of glass materials to show 							course, it affects the integrity of the building. It		
			modern types of heat treatment, sound							suggests having spacious, well-ventilated, and		
			insulation, and self-cleaning types.							lightly lit places of rest amid technology crowds in		
			Another smart type, Glass Smart, can							public places and also improves the psychological		
			control transparency and opacity by							state. No one disagrees with the impact of		gre
			connecting to a small current.							architecture on nature and the culture of society.		ŏ
		What is the vocabulary								Ancient architecture differs from Greek architecture,		
	relationship of	of the relationship of	The nature of architecture, which differs from one							which differs from African architecture, for		
1	architecture with	architecture to society	person to another, is not only affected by humans,							example, because culture and heritage differ from		
	society and the levels	and its levels and	but also affects their psychological state, nature, and							one society to another. The nature of the climate also		
à l	and mechanisms for	mechanisms for	behavior, and even affects their physiological state.							varies, for example, sloping roofs spread in cold		
Architecture and Societ	achieving it.	achieving it?	The impact of architecture on humans, especially		2	8				lands where snowfalls, and different resources and the nature of the land affect the nature of buildings.		
			urban residents, as the design of buildings in cities		3.33	3.33				The nature of the land affect the nature of outldings. The resources and nature of the land that affect the		
and			sometimes causes stress and anxiety for residents		53.33% agree	53.33% agro				The resources and nature of the land that affect the nature of the buildings vary. We should also not		
s			and increases stress.		8	8				differ on the impact of architecture on society, as the		
liefv			Mechanisms to verify the relationship through							effects are noticeable and significant.		
			 Participation in the design. 									
			- Architecture must reveal its content,									
			accurately.									
			 Standards for use and live experience. 									
				 			_					
	1-Introducing th	he 1-What are the bas	ic 1- Hypothesis l							Hypothesis 2 – 1- Sequence: The sequence is one of the		
	student to the bas	ic principles f	or Basic principles of outer space design							important foundations in designing and		
	principles of designin	ng designing outer spa	ce 1- Simplicity: Simplicity is the modern trend							landscaping gardens. The arrangement and		
	the outdoor space									the follower are in the line of sight of the		
		-								scene (perspective), so the eye looks and		
	what can be called th	he integration with	 gardens are crowded with plants, facilities, 							moves on the elements and components		
	garden landscape ar	nd single building or wi	th or many buildings due to confusion and							that are the dominant of the scene first and		
	activating its integratio	on a group of buildings?	lack of harmony in the general form of							then to the less dominant elements.		
	with a single building	or	design.							2- Emphasis: It is necessary to have a certain		
			2- Unity: It is one of the most important							point to avoid looking more than the rest		
	with a group (01								of the sites, for example placing a pond or a small geometric water basin and in the		
	buildings within th											53.39
		he	elements in the layout that shows the							-		53.3% ag
	general urba									middle of it a prominent monument or statue.		53.3% agrœ
	general urba landscape.		elements in the layout that shows the							middle of it a prominent monument or		53.3% agrœ
	-		elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the							middle of it a prominent monument or statue.		53.3% agree
Ex	landscape.		elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements,							middle of it a prominent monument or statue. 3- Enlargement or Extension: Expansion is a		53.3% agree
Exteri	landscape.		elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in							middle of it a prominent monument or statue. 3- Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious		53.3% agrœ
Exterior	landscape.		elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the			60.0				middle of it a prominent monument or statue. 3- Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long		53.3% agrœ
Exterior Spa	landscape.		elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in			60.0%	50 Mai			 middle of it a prominent monument or statue. 3- Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long distances and seem unlimited, for 		53.3% agree
Exterior Spaces	landscape.		elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the			60.0% agre				 middle of it a prominent monument or statue. 3- Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long distances and seem unlimited, for example, when placing huge furniture or 		53.3% agrœ
Exterior Spaces De	landscape.		elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the			60.0% agrœ				 middle of it a prominent monument or statue. 3- Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long distances and seem unlimited, for example, when placing huge furniture or making wide walkways in a limited- 		53.3% agrœ
Exterior Spaces Design	landscape.		elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings.			60.0% agrœ				 middle of it a prominent monument or statue. 3- Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long distances and seem unlimited, for example, when placing huge furniture or 		53.3% agræ
Exterior Spaces Design	landscape.		elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3- Color Prev alert: It means the			60.0% agrœ		2-Guiding the student to	2.How to address site	 middle of it a prominent monument or statue. 3- Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that estand to long distances and seem unlimited, for example, when placing huge fumiture or making wide walkways in a limited- dimensional garden space, it appears 		53.3% agrœ
Exterior Spaces Design	landscape.		 elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3- Color Prev alert: It means the predominance of a certain color or more 			60.0% agrœ		2-Guiding the student to know how to address	2-How to address site problems and invest	 middle of it a prominent monument or statue. 3- Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that estand to long distances and seem unlimited, for example, when placing huge fumiture or making wide walkways in a limited- dimensional garden space, it appears 		53.3% agræ
Exterior Spaces Design	landscape.		elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3- Color Prev alert: It means the			60.0% agrœ		2-Guiding the student to know how to address site problem: optimally	2 How to humany site	 middle of it a prominent monument or statue. 3. Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long distances and seem unlimited, for example, when placing huge furniture or making wide walkways in a limited- dimensional garden space, it appears smaller than reality. 2. Hypothesis 1 – 		53.3% agræ
Exterior Spaces Design	landscape.		 elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3- Color Prev alert: It means the predominance of a certain color or more 			60.0% agree			problems and invest	 middle of it a prominent monument or statue. 3- Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long distances and seem unlimited, for example, when placing huge furniture or making wide walkways in a limited- dimensional garden space, it appears smaller than reahty. 2-Hypothesis 1 – Site problem: are addressed and site properties are 		53.3% agræ
Exterior Spaces Design	landscape.		 elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3. Color Prev alert: It means the predominance of a certain color or more for most of the features of the garden over them, as it is consistent with the place 			60.0% agree		site problems optimally	problems and invest site characteristics and	 middle of it a prominent monument or statue. 3. Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long distances and seem unlimited, for example, when placing huge furniture or making wide walkways in a limited- dimensional garden space, it appears smaller than reality. 2. Hypothesis 1 – 3. Hypothesis 1 – 3. Hypothesis 1 – 5. Hypothesis 1 – 		0
Exterior Spaces Design	landscape.		 elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3- Color Prev alert: It means the predominance of a certain color or more for most of the features of the garden over them, as it is consistent with the place where the garden originates, and this does 			60.0% agree		site problems optimally and to invest its characteristics and components to serve the	problems and invest site characteristics and components to serve the integrated visual landscape between	 middle of it a prominent monument or statue. 3. Enlargement or Extension: Expansion is a deception of sight It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that estate to long distances and seem unlimited, for example, when placing huge fumiture or making wide walkways in a limited-dimensional gradem space, it appears smaller than reality. 2. Hypothesis 1 - Space of Identification: This can be done by distinguish areas, paths, or uses to make it 		0
Exterior Spaces Design	landscape.		 elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3- Color Prev alert: It means the predominance of a certain color or more for most of the features of the garden over them, as it is consistent with the place where the garden originates, and this does not preclude the use of other colors that 			60.0% agree		site problems optimally and to invest its characteristics and components to serve the integrated visual scene	problems and invest site characteristics and components to serve the integrated visual landscape between mass and space	 middle of it a prominent monument or statue. 3. Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long distances and seem unlimited, for example, when placing huge fumiture or making wide walkways in a limited-dimensional garden space, it appears smaller than reality. 2. Hypothesis 1 - Site problems are addressed and site properties are invested through Space of Identification: This can be done by distributing coordination elements to distinguish areas, paths, or uses to make it easier for residents or arrivals to identify 		0
Exterior Spaces Design	landscape.		 elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3- Color Prev alert: It means the predominance of a certain color or more for most of the features of the garden over them, as it is consistent with the place where the garden originates, and this does 			60.0% agree		site problems optimally and to invest its characteristics and components to serve the integrated visual scene between mass and	problems and invest site characteristics and components to serve the integrated visual landscape between mass and space through external	 middle of it a prominent monument or statue. 3. Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that estand to long distances and seem unlimited for example, when placing huge furniture or making wide walkways in a limited-dimensional garden space, it appears smaller than reality. 2. Hypothesis 1 - Site problems are addressed and site properties are invested through Space of Identification: This can be done by distributing coordination elements to distinguish areas, path, or uses to make it exaiter for residents or anivals to identify them. 		53.3% agree 40.0% agree
Exterior Spaces Design	landscape.		 elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3- Color Prev alert: It means the predominance of a certain color or more for most of the features of the garden over them, as it is consistent with the place where the garden originates, and this does not preclude the use of other colors that 			60.0% agrœ		site problems optimally and to invest its characteristics and components to serve the integrated visual scene	problems and invest site characteristics and components to serve the integrated visual landscape between mass and space	 middle of it a prominent monument or statue. 3. Enlargement or Extension: Expansion is a deception of sight It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long distances and seem unlimited, for example, when placing huge furniture or making wide walkways in a limited-dimensional garden space, it appears smaller than reality. 2. Hypothesis 1 – Site problems: are addressed and site properties are invested through Space of Identification: This can be done by distributing coordination elements to distinguish areas, paths, or uses to make it easier for residents or anivals to identify them. Trestment Environmental: These elements 		0
Exterior Spaces Design	landscape.		 elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3. Color Prev alert: It means the predominance of a certain color or more for most of the fastures of the garden over them, as it is consistent with the place where the garden originates, and this does not preclude the use of other colors that complement it, but to a small degree and not focused. 			60.0% agrœ		site problems optimally and to invest its characteristics and components to serve the integrated visual scene between mass and	problems and invest site characteristics and components to serve the integrated visual landscape between mass and space through external	 middle of it a prominent monument or statue. 3. Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long distances and seem unlimited, for example, when placing huge fumiture or making wide walkways in a limited-dimensional garden space, it appears smaller than reality. 2. Hypothesis 1 – Sine of the properties are invested through Space of Identification: This can be done by distributing coordination elements to distinguish areas, paths, or use to make it easier for residents or anivals to identify them. Treatment Environmental: These elements are used to reduce the damages of the 		0
Exterior Spaces Design	landscape.		 elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3. Color Prev alert: It means the predominance of a certain color or more for most of the features of the garden over them, as it is consistent with the place where the garden originates, and this does not preclude the use of other colors that complement it, but to a small degree and not focused. 4. Design Axial: Each garden has its axes, 			60.0% agree		site problems optimally and to invest its characteristics and components to serve the integrated visual scene between mass and	problems and invest site characteristics and components to serve the integrated visual landscape between mass and space through external	 middle of it a prominent monument or statue. 3. Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has sense that extend to long distances and seem unlimited, for example, when placing huge fumiture or making wide walkways in a limited-dimensional garden space, it appears smaller than reality. 2. Hypothesis 1 - Site problems are addressed and site properties are invested through Space of Identification: This can be done by distributing coordination elements to identify them. Treatment Environmental: These elements are used to reduce the damages of the harch climate by spreading shade, reducing 		0
Exterior Spaces Design	landscape.		 elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3- Color Prev alert: It means the predominance of a certain color or more for most of the features of the garden over them, as it is consistent with the place where the garden originates, and this does not preclude the use of other colors that complement it, but to a small degree and not focused. 4- Design Axial: Each garden has its axes, which are imaginary lines, including the 			60.0% agree	*	site problems optimally and to invest its characteristics and components to serve the integrated visual scene between mass and	problems and invest site characteristics and components to serve the integrated visual landscape between mass and space through external	 middle of it a prominent monument or statue. Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long distances and seem unlimited, for example, when placing huge furniture or making wide walkways in a limited- dimensional garden space, it appears smaller than reality. Hypothess 1 - Site problems are addressed and site properties are invested through Space of Identification: This can be done by distributing coordination elements to distinguish areas, paths, or uses to make it easier for residents or arrivals to identify them. Treatment Environmental: These elements are used to reduce the damages of the harsh climate by spreading shade, reducing the temperature, or reducing dust. 		0
Exterior Spaces Design	landscape.		 elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility, in addition to the compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3. Color Prev alert: It means the predominance of a certain color or more for most of the features of the garden over them, as it is consistent with the place where the garden originates, and this does not preclude the use of other colors that complement it, but to a small degree and not focused. 4. Design Axial: Each garden has its axes, 			60.0% agree		site problems optimally and to invest its characteristics and components to serve the integrated visual scene between mass and	problems and invest site characteristics and components to serve the integrated visual landscape between mass and space through external	 middle of it a prominent monument or statue. 3. Enlargement or Extension: Expansion is a deception of sight It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long distances and seem unlimited, for example, when placing huge furniture or making wide walkways in a limited- dimensional garden space, it appears smaller than reality. 2. Hypothesis 1 - Space of Identification: This can be done by distinguish areas, paths, or uses to make it easier for residents or anrivals to identify them. Treatment Environmental: These elements are used to reduce the damages of the harsh climate by spreading shade, reducing the temperature, or reducing dust. Hypothesis 2 - 		0 40.0% agree 40
Exterior Spaces Design	landscape.		 elements in the layout that shows the garden coherently. It is also a unit of the final image of the garden and the interdependence of its various elements, their compatibility, and compatibility between the garden for all its aspects, the neighborhoods, the buildings, and the surroundings. 3- Color Prev alert: It means the predominance of a certain color or more for most of the features of the garden over them, as it is consistent with the place where the garden originates, and this does not preclude the use of other colors that complement it, but to a small degree and not focused. 4- Design Axial: Each garden has its axes, which are imaginary lines, including the 			60.0% agree		site problems optimally and to invest its characteristics and components to serve the integrated visual scene between mass and	problems and invest site characteristics and components to serve the integrated visual landscape between mass and space through external	 middle of it a prominent monument or statue. Enlargement or Extension: Expansion is a deception of sight. It is known to most people that a person often feels comfortable when he is more spacious since nature has scenes that extend to long distances and seem unlimited, for example, when placing huge furniture or making wide walkways in a limited- dimensional garden space, it appears smaller than reality. Hypothess 1 - Site problems are addressed and site properties are invested through Space of Identification: This can be done by distributing coordination elements to distinguish areas, paths, or uses to make it easier for residents or arrivals to identify them. Treatment Environmental: These elements are used to reduce the damages of the harsh climate by spreading shade, reducing the temperature, or reducing dust. 		2 40.0% agree



Volume: 08 Issue: 08 | Aug 2021

www.irjet.net

e-ISSN: 2395-0056 p-ISSN: 2395-0072

46.7% agree

46.7% agree 60.0% agree

53.3% agree

60.0% agree

Final result Result

40.0% agree

43.33% agree

Agree Neutral Disagre

	IRJET V	oranner oo i	ssue: 00 Aug 2021					•••	jei		••			p-155N: 2
	1-Introducing the student to the features and advantages of Islamic architecture through exposure to that product in its various types of functions (moxque, dwelling etc.)	What are the features and advantages of Islamic architecture?	 Features and advantages of Islamic architecture 1- Features and advantages of Islamic architecture. 2- The architecture of the mosque is distinguished by the presence of the courtyard. The covered courtyard is distinguished by leaves surrounding it to protect the worshipers from the heat of the sun. 3- The muezzins are distinguished by a special design and interest in Islamic 				46.7% agrœ				1- Capable of a acountically auditoriums.	designing efficient	1-How can acoustically efficient auditoriums be designed?	 Hypothesis 1 - To reach the design of acoustically efficient anditoriums: When constructing a hall, it is necessary to stay away from the regular shape, because the spread of sound in the irregular shape will be better to prevent the strengthening of the sound at certain frequencies without the other frequencies, which makes the sound appear distorted. The inclination of the walls and the non- orthogonal corners should be taken advantage of to keep the returning waves
Islamic architecture			 architecture and art. Hypothesis 2 - The Eslamic architecture was also distinguished for the architecture of the dwelling: 1. It was distinguished by the construction of isolated units and buildings dedicated to women (harems). 2. They were distinguished by balconies overlooking the main road, with small narrow openings protected by iron bars. The upper balconies were wide and appropriate, covered with wooden machabiyas to protect them from the sun. 3. Entrances and Slots: Entrances are 				40.0% agree	43.33% agree		Architecture Audios				 away and reduce the resonant frequencies. 3. Using packaging materials that are good for sound absorption, as well as using surfaces that have a great ability to scatter and weaken wave. Hypothesis 2 We need to move away from circular and oval shapes where their problems are: Creating an audio focus inside the hall. 2. Sound rotation around the walls of the round hall. Acoustic hotbeds result in no homogeneous distribution of sound and sound sources heard during the original sound.
Architecture Theory	l-dealing with the theoretical shifts in postmodern architecture through Robert Venturi's argument of	1-What are the theoretical shifts in postmodern architecture according to Robert Venturi's	characterized by deep rectangular slots horizontally, the depth of which is half their width. 1- Hypothesis 1 – Instead of functional theories of modernity, Venturi suggested giving primary focus to the facade, including historical elements, subtle use of unusual materials and historical allusions, and using				53.3% agree				2- Able to a interior vocabulary or spaces to rr efficiency of performance.	design f audio aise the	2-How can the efficiency of audio performance be raised by adapting the vocabulary of interior design?	2- Hypothesis 1 - walls: The back walls of the halls should be made straight and not concave. The walls of the hall are perfectly designed, packed with sound-insulating material, and filled with dispersive or sound-absorbing material. Hypothesis 2 - Hall chains: The distance between a chair and the back of another
Architecture Theory II (Postmodern Architecture)	complexity and contradiction.	"Complexity and Contradiction"?	fragmentation and modulation to make the building interesting. Hypothesis 2 – Postmodern architecture emerged in the 1960s as a reaction to perceived shortcomings in modern architecture, particularly its rigid tenets, its unification, its lack of adornment, its habit of ignoring the history and culture of the cities in which it appeared.				e 86.7% agree	70.00% agree						The uniate between it than has the tool of motion chair should be from 85 cm to 144 cm, where the last distance is suitable for the person so that he doe not stand. To pass someone else in the same room seat class. The width of the corridors at the level of the hal should be 3 m and at the other levels, the width i 1.5 m. If the hall area is more than 350 square meters, then the width of the corridors must be increased by 15 cm for every 50 square meters.
engineering services	The topic aims to introduce students to engineering services that accompany the construction schemes used in buildings by reviewing these	What engineering services accompany the construction schemes in the buildings and their implementation methods?	To implement the facility accurately and without errors, the architectural, electrical, sanitary and other plans must accompany the construction plans to ensure that these plans do not conflict with each other and that each paragraph is implemented correctly.				53.3% agree	25.00% 報		study vocabulary	Educational ob	ojectives vn the	Possible problems	problem-solving hypotheses Hypothesis 1 –
	services, how they are implemented, how they are applied in buildings, and by identifying the details adopted for each.	WD	Hypothesis 2 – To implement the facility accurately without errors, the plans for air conditioning, refrigeration, fire systems, and others must accompany the construction plans.				46.7% agree	86			concept of development direct documentation	urban through field of	development of heritage areas and central areas of cities?	Urban development is done by studying the reali of the situation in the area concerned and throug plans that show the land uses, the construction situation, the heritage condition, and the diagnosis
sustainable architecture	Introduce students to the concept of the concept of ustainability in general and suttainabile architecture in patticular, providing a broad and sconewhat comprehensive information base.	What is sustainable architecture and how is sustainability related to the design aspect?	Hypothesis 1 – Sustainable architecture or green architecture is a general term that describes environmentally conscious design techniques in the field of architecture. It is the process of designing buildings in a manner that respect the environment, taking into account reducing the consumption of energy, materials, and resources, while reducing the effects of construction and use on the environment, while regulating harmony with nature. Environmentally auxtainable design is the philosophy of designing physical objects, the built environment and services to comply with principles of environmental sustainability. Hypothesis 2- Sustainability is the development that meets the necessities of the present without compromising the ability of finue generation to meet their meets. Since architecture and urbanism reflect the reality of nurtainability needed to permeate the architectural and urban works so that sustainable and architectural and urban works on that sustainability.				66.7% agree 53.3% agree	60.00% agree		Architectural Design V	heritage areas or areas in cities.	r central		 the preservation buildings. In light of this, the planning alternative and the appropriate urbar design for the development of the region ar presented. These alternatives Developing folk and heritage market attractively and beautifully, aestheticall and functionally, and preserving ther from extinction. 2 - Old buildings should not be used a commercial market and can be used a restaurant, attractioner, and tourist areas. Not to give licenses for new high-risb buildings in the area. If license are given the external facades must be appropriat and consistent with the existing facades. 4 Laying down laws to standardize the design frameworks for unbrellas an billboards, and standardizing the colors of
		Fourth	tage result	A	lgre	e %5	6.19							doors for shops.
Educational level			fage result	Like				Ratio						



e-ISSN: 2395-0056

Volume: 08 Issue: 08 | Aug 2021

www.iriet.net

p-ISSN: 2395-0072

	IRJET VO	olume: 08 I	ssue: 08 Aug 2021	W	w	w.i	irje	t.n	et		p-ISSN: 23	9	5-0	07	72	
			 Hypothesis 2 – Work to provide the necessary funding to preserve, restore, rehabilitate and use heritage buildings. Providing sufficient funding for the cadres working in the area to be developed on how to deal with and preserve heritage areas. 						architectural trends of Arab architecture, focusing on the most important conceptual and practical transformations during the different decades of the stage. 2-identifying the most	Arab architecture has undergone during the different decades of this stage? 2- What are the most	Hypothesis 2- 1- Transformation of Architectural Identity. 2- Social and cultural transformations. 3- Hypothesis 1-				66.7% agree 4	
			 Laying down laws and regulations related to the protection of historical and archaeological areas in general. Issuing laws plans and designs to develop the aesthetic and visual appearance of the area to be developed. Recommendations for the concerned institutions, including 		40.778 agus	46 78% arrive			important civilizational and cultural influences that accompanied these transformations and their impact on contemporary Arab architectural practice	important civilizational and cultural influences on contemporary Arab architectural practice to produce architecture that belongs to the	The city and the urban fabric are the products of culture. Hypothesis 2- Social customs and traditions have greatly impacted the thought and practice of architecture.				46.7% agree 80.0% agrœ	
	1-The A student's recognition of how to promote the sense of belonging and connection to the deep	1-Promoting the place belonging to the deep roots of the country	 the Unitive of Tourism and Antiquites, municipalities, institutions, and heritage associations. Reviving traditional crafts in local architecture and rehabilitating specialized staff. Hypothesis 1 - Promoting place belonging as well as country's deep roots by dealing with the heritage vocabulary by subjecting the vocabulary to certain mechanism: based on the character of the architect and the way 			46 7% anno an		N	1-The student's recognition of the nature of philosophical knowledge and the general grounds for reflection.	place?	 Hypothesis 1- Epitemology is the study of the nature of knowledge, explanation, justification, and the rationality of belief. General foundations of philosophical thinking: 1- There's ground for critical thinking: And that meant thinking about things in the sense that it's not the obvious premise that takes things the way they are. 2- Doubt and denial: This means placing ideas on the scale of logic and weighing 				ree 53.3% agree	
supposition Cor	roots of his country.	1-1- What are the most	he understands and treats the vocabulary. Hypothesis 2- By quoting elements and symbols of heritage. 1- Hypothesis 1-		10.070 ages	43.33% agree		Architecture Philosophy			whether or not they are close to logic. Hypothesis 2 – Knowledge of hings, subjects, and how to do things. At this point, knowledge was considered something that existed and the human mind had only to reflect on it as it was. Philosophical knowledge was used for some scientific uses and received no mental analysis. Only in Greece, whose civilization had developed the concept of theoretical knowledge that they had acquired and were able to codify. The general basis for philosophical thinking.					40 7 20/ anna
ntemporary Arab	twentieth century to the present era, the course deals with the different	important conceptual and applied transformations that	Socio-economic-political-technical transformation. Mestal transformation.		00.076 agree	63.33 agree					College and abstraction: These characteristics mean not looking at things, but looking at what they are and not only imagining things as material but also studying non-sensed phenomena.					
	2-understanding the philosophical position in contemporary architecture.	2- What is the philosophical position in contemporary architecture?	2- Hypothesis 1- Architecture, like the rest of the arts, has constants and variables, and one of its variables is philosophy, which relies on the sense, thought, culture, and environment of the architect to bring out a creative idea that suggests the character and function of the builder convey a message and meaning to the viewer and be one of the civilizational landmarks of this time and reflect the civilization of the nation. Hypothesis 2 – At the beginning of a particular project, we start with an idea, and since the architectural idea is the		An Alfin at 1 Yea.	2			2-identify the general and special conditions of construction contracting.	2-What are the general and special conditions for construction contracts?	 Hypothesis 1 – General and special conditions for construction contracting Name of the tender. 2-2-Submitting bids. Documents attached to the bid: The bidder must attach with his bid the following documents: The identity of the Iraqi Contractors Union, valid at the time of bid submission (if Iraqi). A detailed list of similar works that he carried out, with mentioning the entity for which he worked. 				73.3% agree	
	1-Enabling the student	1-How is the process	beginning and the most important thing in the project, here appears the role of philosophy and the many questions that in turn lead to the emergence and crystallization of the idea of design as it's a sense, and a sense of inner space leads to a good distribution of building elements and good exploitation of space, and what the building works with is an external vacuum that leads to an architectural creation that symbolizes and signifies the realism of the building's architecture. 1- Hypothesis 1 –		2212 12 12 12 12 12 12 12 12 12 12 12 12	11 10 Anorea					 Hypothesis 2 - General and special conditions for construction contracting Work approach: Bidders shall indicate in their bids the route, course of action, details, and type of equipment they intend to use in carrying out the work. Work completion duration: Unless the employer determines the duration of the completion of the work in the tender documents, the bidders shall indicate in the tender the time required to complete the work and the bidder to whom the auction is awarded shall be obliged to complete the work within that period. 				66.7% agree	
Guessing and Specifications	to be familiar with the process of estimating and specifications, which are necessary for every engineer in the worksite or the planning stage, calculating quantities accurately, and setting bills of quantities for projects, which are the basis for the implementation of any project.	of estimating and calculating quantifies and specifications for buildings?	Approximate or total estimation. It is an estimation of the building as a whole based on the 3M or 2M of the building. This estimation is made in a hurry or short steps, or rather approximately, the project owner may want to know the approximate cost of a project before deciding to establish it, and this type of estimation is not sufficient for tenders. Hypothesis 2 – A detailed estimation of each part of the building separately. It is prepared after knowing the price of materials and equipment, knowing workers' wages, additional and fixed expenses, and estimating the profit. This estimation must be made by contractors before submitting bids or entering into contracts for important projects.		1 June Broo	60.67% agree 60.0%	ll (M) anna	Contemporary Iraqi architecture	1-The student learns about Iraqi architecture starting from the British occupation period through the moot important stages and stations in the contemporary history of Iraq through the temporal and spatial study of local architecture and the extent to which it meets the requirements of	1-What are the characteristics of Iraqi architecture during the British occupation period? To what extent did Iraqi architecture meet the requirements of identity?	 Hypothesis 1 – Iraqi architecture during the British occupation period The almost complete absence of the concept of "heritage", as the stage did not witness the emergence of calls for inspiration from the past and the revival of heritage The presence of craftswomen in the architectural production and the use of heritage details and elements borrowed from the ancient Iraqi and Arab architecture using (arches, domes, and arcades, in addition to the use of bricks). 				66.7% anglere	5/6 /79/, an mon



e-ISSN: 2395-0056

INJET Volume: 08 Issue: 08 | Aug 2021

www.irjet.net

	IRJET VC		55ue. 00 Aug 2021	 	 		jetillet		p-155N, 25			_	_
	2-Identifying the most important basic features that formed the personality of Iraqi architecture.	2-What are the most important basic features that formed the personality of Paqi architecture?	 Hypothesis 2- 1- Artistic focus and singing architectural details are done only on the front faces of the building, leaving other duty treatments with no apparent attention. 2- Attention to the front facade and semi-overlook the other facade. What distinguishes this front facade is the abundance of details and metaphors here and there - both from classic British architecture and traditional local architecture. 		46.7% agree 53.3%			2- What is the type of connection and relationship between (criticism theory), (architecture theory), and (philosophy)?	P-15314. 23 Hypothesis 2- 1 - Descriptive criticism: aims to present facts about the building or plan. It is usually used to help understand the building or design as an explanation of the project to the owner or user. 2 - Hypothesis 1 - The relationship between (criticism theory), (architecture theory) and (philosophy) Philosophy is the ideal concept of trying to answer the fundamental questions of existence and the universe. And it's a holistic, rational, systematic way of understanding the truth in its various supects, which is concerned with basis humanitarian activities.				
			their use was limited to covering the places in front of the mihrab, and then spread to the mauroleum. At first, corner contracts were made to facilitate the transition from the square to the octagon, then the muqarms appeared to address this aspect aesthetically and architecturally. Hypothesis 2 – The entrances, iwans, and ceilings of traditional Iraqi buildings were decorated with decorative elements that were formed from vegetal motifs or with geometrical elements with wonderful intersecting formations and formations to achieve more aesthetics in the form that contains the characteristics of the formation, and it has been enhanced with verses of Arabic calligraphy and plant branches.		3% agree 60.0% agree				Hypothesis 2 – Architectural theory is the architectural basis of an era of time that is achieved by proof and experience, which is an intellectual activity, where the act of mind remains the cause of the emergence of a theory and is therefore scientific. Architecture In general, architecture theories are architectural foundations and principles based on beauty measures without compromising function. The architectural theory provides us with dimensions on which to base our comparison, analysis, and criticism. These dimensions take the nature of empirical generalities, and the analysis of criticism is based on theory. These two activities (theory and criticism) are linked in a relationship, as each one				
Architectural criticism theories	1-Introducing students to the most important critical theories affecting architecture.	1- What are the most important critical theories affecting architecture?	 Hypothesis 1 – The most prominent critical theories affecting architecture Theoretical criticism: It is an expression of individual beliefs known to architects, and this includes: theory, beliefs about what is good or bad "self" interpretative criticism: self- criticism depends on the criterion or principle adopted by the assessor and often follows its approach. 		46.7% agree	51.67% agree			has a specific and correcting activity for the other.				
Professional p	1-To inform the student of the professional practice and the architect's duties towards the profession through his design presentations, first as a thinker and creator, to his field practice as coordinator and leader of the executive team.	1-What are the principles of professional practice and the duties of an architect?	1. The sublic interest It is in the interest of		53.3% agree	58.3.3% ag	2-The student recognizes the origins of professional grading through the professional organizations of the Iraqi Engineers' Union.	2-What are the principles of professional apprentice-hhp in force in the Iraqi Engineers Syndicate? Stage t	 2- Hypothesis 1- Assistant Engineer: It is the first rank of engineer and its duration is at least four years. The practicing engineer: - Its duration is not less than five years from practicing the profession. Hypothesis 2- A licensed engineer: - Its term is not less than five years. The consultant engineer: It is the highest classification level for the union's members. The consultant then has the right to assume responsibility for engineering projects, planning and coordinating the work of specialists in the various engineering fields in them, without specifying his specialization. Five result		6.67	0 ap	
vractio			or me ounsing and numme orsice purpose or me building. Hypothesis 2- 1- Conscience, which is the balance of sense and awareness that gives the individual the			uee	The first stage 1. The Er problem of the	ıglish langu	age in the answer to th	e s			

- **3.** Architectural drawing in its first problem and through its second hypothesis obtained 53% (neutral), which suggests that the answer to this problem requires the development of other hypotheses.
- **4.** There is a distinction in the manual drawing between the first two problem hypotheses of this substance by weighing the second hypothesis over the first and by 40% neutral and 40% agreed for the first and 46% agreed and 13% neutral respectively, which is matched by 33% strongly agreed for the second hypothesis.
- **5.** In the building materials vocabulary, the first hypothesis of the problem proven in this article was distinguished, with 73% agreed, while we find the weakness in the second hypothesis for the same article, with 46% being neutral and 40% agreed.
- **6.** In the computer vocabulary, we find clear distinction and support for the first and second hypotheses of the proven problem and its final result, and 40% agree strongly with both.

The final result of the vocabulary of the first stage was 45.10% agreed and 20.59% strongly agreed.

The second stage:

- 1. Architectural design: We find that the second hypothesis of the third problem of this vocabulary has indicated a rate of 33% (neutral). It is because learning to solve symbolic problems in architectural design may be more targeted on one side and more hypotheses are needed to reduce the neutrality of the second hypothesis at hand.
- **2.** Architectural drawing: In the second problem, the second hypothesis is that the ratio (neutral) is up to 47%, which is due to the architectural drawing subject of the second stage achieves its objectives more through actual drawing exercise than theoretical goal formulation.
- **3.** Manual drawing: The third problem obtained through its first hypothesis a rate of 73% (agree) given the direct goal achieved in that hypothesis.
- **4.** Buildings Construction: The second hypothesis of the first problem obtained 33% (neutral) because of the large size of the proven target and the size of the problem arising.
- The third problem, through its first and second hypotheses, obtained high rates of 53% and 46% (agreed) respectively, was due to the clarity and directness of the educational objectives required by the text of the problem arising.
- The first hypothesis of the fifth problem was 53% (neutral) given how much potential can be given to the same problem, and therefore what is given to solve that problem is relatively minor. The same is the case with the first and second hypotheses of the previous problem for this term (construction of buildings).
- **5.** Design methodology and logic: The first and second hypotheses of the second problem got relatively high rates, which are 53% and 46% (agree) given their direct and accurate investigation of that problem, as well as the first hypothesis of the third problem for the same problem.
- 6. Architecture age: The first hypothesis of the first problem was 40% (strongly agreed) given its direct and precise investigation of that problem as well as the first hypothesis of the third problem of the same problem.

The final result of stage two vocabulary was 42.60% agreed and 16.15% strongly agreed.

The third stage:

- **1.** Buildings Construction: The first problem with its first and second hypotheses achieved a neutral rate of 53% for each of them due to the weakness and limitations of those hypotheses compared to the text of the first problem.
- **2.** Architecture age: The first problem with its first hypothesis achieved 53% given the start of the hypothesis for the problem at hand. As well as the third problem with its first hypothesis, it received 60% (agreed) for the same reason.
- **3. 3D Max computers, construction, and urban planning:** Most of its hypotheses obtained high rates (agreed) given the clarity of the objectives of the article and thus its problems and hypotheses formulated by the result.

The final result of stage three vocabulary was that 46.57% agreed and 17.8% strongly agreed.

The fourth stage:

- 1. The academic vocabulary (architectural design, interior design, housing, architecture theory II, architecture theory (postmodern), outdoor spaces, architecture and climate, building techniques, interior design, engineering services, and sustainable architecture got high rates of (agree) because of the clarity of the cognitive objectives of that academic vocabulary, which led to the identification of clear and solvable problems as well as accurate hypotheses to solve those problems.
- 2. Architecture and Society has a rating of (53%), given the weak hypotheses for answering problems specific to the cognitive objectives of this subject.

3. Architecture acoustics vocabulary, through its second hypothesis, got a rating of (60%) (agree), given that it directly answers the second epistemological problem, besides, this vocabulary falls within the field of applied sciences, which is characterized by the objectivity of its standards.

The final result of the fourth stage vocabulary was agreed with a percentage of 56.19% agreed and strongly agreed with a percentage of 21.27%.

The fifth stage:

- 1. Architectural design: this vocabulary was supported in high proportions by its problem and by the full amount of details of the two hypotheses of this problem. The ratio was (strongly agreed) (40%) for the first hypothesis and an estimate agreed (40%), the second hypothesis was (strongly agreed) by 33% and (agreed) by 46%.
- **2.** Contemporary Arab Architecture: Through its estimates, this vocabulary obtained a Lickert ratio (60%) for its first hypothesis and (66%) for its second hypothesis given the clarity of the objectives of the cognitive material about which the problem was formulated and then the hypotheses that directly answer the problem of this study vocabulary. The second problem hypothesis received (agreed) with a percentage of (80%).
- **3.** Philosophy of architecture: due to the considerable expansion in the details of this first and second study vocabularies to answering the first problem, it received relatively high support (53%) and 60%). The second, whose first hypothesis was supported (33%) (Strongly agreed), was reduced in the second, given the weakness of the hypothesis in answering its problem.
- **4.** Conjecture and specifications: This vocabulary obtained high ratios to answer the problems of this article and the two hypotheses prepared for each problem, as follows (66%, 60%, 73%, and 66%) (Agree). This has been achieved because of the clarity of the problems formulated, and therefore the hypotheses underlying them, which have struck the problems directly.
- **5.** Contemporary Iraqi architecture: This study vocabulary with the theory of architectural criticism as well as the practice of the profession expression through its two problems formulated based on the objectives of the article and given the accuracy of the details of its four hypotheses obtained ratios ranging from 66% to 46%, 53% to 60% (agreed).

The final result of stage five vocabulary was that 56.67% agreed and 19.44% strongly agreed.

Conclusions

The first stage

- **1.** Given the wide range of goals set for some vocabulary, such as English language, architectural design, and drawing, since one can agree on the desired goals for this vocabulary, its hypotheses have achieved a ratio (neutral) at the micro-level.
- **2.** A distinction can be made between the result of the hypotheses formulated (higher and lower) to answer the same problem and the same material as in the first stage (architectural drawing) and (building materials) of the first stage.
- **3.** A distinct (high) proportion of solutions to the problems of certain vocabulary can be diagnosed by its hypotheses, as in the case of computer vocabulary. This has been achieved by the high agreement on the educational objectives of this subject and the consequent problems and its hypotheses.

The second stage

- 1. The situation varies in the second stage in terms of the formulated hypotheses for solutions to cognitive problems. There have been instances that are quite good (neutral) to what has been formulated, which may be due to the lack of cognitive accumulation of second-stage students requiring further revision in the formulation of cognitive problems and hypotheses as in the architectural design and drawing vocabulary as well as the construction of buildings vocabulary which affirms the weakness in the formulation of some hypotheses indicated, several of which were supported by more than (50%), as in the concept of constructing buildings in its third problem.
- 2. The accuracy of the formulation of problem-solving hypotheses can contribute to a degree of support (agreed), which is reflected in the vocabulary (design methodology and logic) and (architecture History II).

The third stage

- As the school stage progresses, there is difficulty in some of the vocabulary in transforming its goal-derived cognitive problems into solvable hypotheses, as in the vocabulary of constructing buildings III, The above is not a static case, as the terms (Architecture History III) and (Computers 3Dmax) got high percentages (agree) with their formulated hypotheses.

The fourth and fifth stage

Many vocabularies have gained support for problem-based learning by transforming the cognitive goals of this vocabulary into solvable problems through supporting hypotheses for the learning process. The researcher attributes this to the high amount of knowledge for students at this stage, which has led to a degree of endorsement (agreed) and in distinct proportions by the professors responsible for these subjects.

Recommendations

- The research recommends the adoption of a problem-based learning strategy in architectural education, given the support demonstrated by the results and findings of the research for the PBL mechanisms.
- The research recommends shifting the sample tested by professors to students to see how they interact with the mechanisms adopted in the PBL strategy.
- The research recommends checking the cognitive goals of the study module, which is the most important key to communicating information whether at the cognitive, skill, or attitude level.
- The research recommends that the hypotheses on cognitive problems derived from the educational objectives of study materials be reviewed to verifying their effectiveness after starting classes and constantly updating them whenever possible and making use of the feedback process of students when presenting the study course.
- The research recommends mixing different learning strategies to obtain the maxim of the desired benefit from that studying vocabulary.
- The research also recommends the activation of more than one learning strategy based on the different nature of subjects within the field of natural or normative sciences.

References

- 1. Salah Abdel Latif Abu Asaad, Asalib Tadris Alriyadiaati, 1st Edition, Amman Jordan: Dar Al-Shorouk for Publishing and Distribution, 2010.
- 2. Alwan, Musab Muhammad, Tajhiz Almaelumat Waealagatiha Bialgudrat Ealaa Hali Almushkilat Ladaa Talabat Almarhalat Althaanawia, a master's study, the Islamic University, Gaza, Palestine 2009.
- 3. Fayez Murad Dandash, Aitijahat Jadidat Fi Almanahij Waturuq Altadris, 1st Edition, Alexandria: Dar Al-Wafaa for Donia Printing and Publishing, 2003.
- Fikri Hassan Rayan, Teaching: its objectives, foundations, methods, evaluation of its results, and its applications, 4. 4th edition, Egypt: World of Books, 1999.
- Hassan Salama, Turuq Tadris Alriyadiaat Bayn Alnazariat W Altatbiq, Dar Al-Fajr for Publishing and Distribution, 5. Cairo, 1995.
- Al-Sukran, Muhammad, Asalib Tadris Aldirasat Aliajtimaeia, Dar Al-Shorouk, Amman, Jordan, 1989. 6.
- 7 Muslim, Ibrahim Ahmed, The New in Teaching Methods: Problem Solving, Developing Creativity, Accelerating Scientific Thinking, Dar Al-Bashir for Publishing and Distribution, Amman, Jordan, 1994.
- Nashawati, Abdel Majid, Eilm Alnafs Altarbawi, Al-Resala Foundation, Beirut, Lebanon, 1997. 8
- 9. Zeitoun, Kamal Abdel Hamid, Altadris Namadhijuh Wamaharatuh, the Practical Office for Publishing and Distribution, Alexandria, Egypt, 1998.
- 10. Mahmoud, Mamoun Othman, Iistiratijiat Alqudrat Ealaa Hali Almushkilat Ladaa Al'iidariiyn Fi Wazarat Alsultat Alwataniat Alfilastinia, Najah University, Nablus, Palestine, 2001.
- 11. Abu Jalala, Sobhi Haddan, Asalib Altadris Aleamat Almueasirat, Al Falah Library, first edition, Kuwait 2001.
- 12. Muhammad Kamel Muhammad Omran, Eadat Aleaql Waealaqatuha Bi'iistiratijiat Hali Almushkilat, "a comparative study" between outstanding and ordinary students at Al-Azhar University - Gaza, 2014.
- 13. Zeitoun, Hassan Hussein and Zeitoun, Kamal Abdel Hamid, Altaelim Waltadris Min Manzur Alnazariat Albinaviya, Dar Alam Al-Kutub, first edition, Cairo, Egypt, 2003.
- 14. Abdul Hadi, Nabil Ahmed, Namadhij Tarbawiat Taelimiat Mueasira, Wael House for Publishing and Distribution, Amman, Jordan, 2004.
- 15. Al-Atari, Majdi, Alealaqat Bayn 'Iistratijiat Hali Almushkilat Walqafat Bialnafs Ladaa Al'iidariiyn Fi Aljamieat Alfilastinia, Master's thesis, An-Najah University, Nablus, Palestine, 1999.
- 16. Al-Nabulsi, Nizam, Mukawinat Dafieiat Alianjaz Waealaqatuha Bi'uslub Hali Almushkilat, doctoral thesis, Tanta University, Cairo, Egypt, 1986.
- 17. Alwan, Musab Muhammad, Tajhiz Almaelumat Waealagatiha Bialgudrat Ealaa Hali Almushkilat Ladaa Talabat Almarhalat Althaanawia, a master's study, the Islamic University, Gaza, Palestine 2009.
- 18. Ismail Muhammad Al-Amin, Turuq Tadris Alriyadiaat, Theories and Applications, Reference Series in Education and Psychology (17), Cairo, Dar al-Fikr al-Arabi, 2001.



- 19. Al-Najjar, Akram Deeb, Athar Aistikhdam Hali Almushkilat Ealaa Altafkir Alaibtikarii Fi Alriyadiaat Ladaa Tulaab Alsafi Alhadi Eashar Eulum Bighaza, Master's thesis, College of Education, Islamic University, Gaza, Palestine, 1999.
- 20. Ali, Wael Abdullah, Athar Aistikhdam Astiratijiaat Ma Wara' Almaerifat Fi Tahsil Alriyadiaat Wahali Almushkilat Ladaa Talamidh Alsafi Alkhamis Alaibtidayiy, periodical Studies in: (Curriculum and Teaching Methods, The Egyptian Association for Curricula and Teaching Methods, Issue (96): 264-193, 2004).
- 21. Dzurilla. T & Nezu. A, (1980). A Study of The Generation of Alternatives Process in Social Problem Solving Cognitive Therapy & Research (Vol (4) on (1) pp 67-72.
- 22. Anderson J, K, (1980) · Cognitive Psychology and its Implications · W. H · Freeman Company.
- 23. Dzurilla.T & Goldfried M R., (1984) .Problem-solving and behavior modification. I. Abnormal Psychol .
- 24. Baron (L. (1989). Psychology: The Essential Science (Allyn and Bacon (Boston.
- 25. Dixson.D & Glover. J (John Wiley & Sons. (1984) (Counseling: Problem Solving Approach)
- 26. Bootzin (R Bower (G and Crocker J. (1991) Psychology Today: New York: McGraw Hill Inc.

AUTHOR



Postgraduate Student (Master) at Al-Nahrain University