بسم الله الرحمن الرحيم

Courses Descriptions

Architecture Department

Faculty of Applied Engineering & Urban Planning

University of Palestine

2017

Geometric Astateka		Course name		.1
Faculty requirement		Course type		
3	Credit hours	ENGI 2313	Course No	

This course covers the following topics: • Theory and Applications basic engineering mechanics, including a review of the vectors, calculate the net force, equilibrium equations for small objects and solid objects, draw curves internal forces: bending moments, shear forces and friction forces • Dynamic objects (such as power, wheel, work, energy, collisions and the amount of movement)	Course description
This course aims to: • Architectural integration of knowledge for students, and through knowledge of the structural foundations • Explain the most important theories and applications of basic engineering mechanics • Study the field by balance sense of structural as well as the disposal of structural elements under the effect of loads	Course aims
The student upon completion of his study to this course is able to: • Specialized knowledge in the field of engineering mechanics as an area of structural engineering • The ability to solve engineering problems related to static and moving objects • The ability to use Newton's Second Law of Motion and the use of methods of labor and energy to solve engineering problems related to solid objects moving in the flat movement.	Course outcomes

Ancient architecture		Course name		.2
Requirement specialization		Course type		
3	Credit hours	ARC 2301	Course No	

This course covers the below topics : • Building the first civilizations, with a focus on classical architecture Kalagriqih and Romania, and Buildings Middle Ages. • Focus on the different architectural styles pop through the ages above, with the development of the most important architectural and construction elements used in each style, through to the characteristics of each style. • Study the technical and aesthetic aspects in every architectural style, as well as the study of the various factors that contributed to the formation of these	Course discription

civilizations and thus influenced the evolution of cities where, especially in the Roman era and the Renaissance.	
This course aims at: • introducing the student to his / her not only on the architectural styles through the ancient and medieval times, but also the philosophy of architecture by analyzing History Of Prehistoric (Pharaonic, Persian, Greek, Romanian, Byzantine) to the early Middle Ages to begin early Christian architecture, right down to Romanesque architecture, Gothic architecture, Renaissance, neoclassical. Finally, the evolution of architecture pattern on the impact of the industrial revolution to give way to the birth of modern architecture	**Course aims**
The student upon completion of his study to this course is able to: • have a depth of knowledge in the patterns and attributes or philosophy of architecture in ancient civilizations (Pharaonic architecture, architecture in Persia, architecture Greek, Romanian, Byzantine) • Thorough knowledge of architectural styles in the Middle Ages (Romanesque architecture, Gothic and Renaissance) • The ability to discern and learn styles and architectural elements and attributes as well as structural elements ups during historical times until the Industrial Revolution • Knowledge of the student / e for the first nucleus of what is called urban planning crystallized in the Roman era and the Renaissance in the form of respect.	**Course outcomes**

Visual training		**Course Name**		**.3**
Requirement specialization		**Course type**		
3	**Credit hours**	**ARC 2202**	**Course No**	

This course covers following topics: • Training on visual perception of shapes and voids and solids and the relationship sensual them, and includes topics related to the characteristics of the shapes and the relationship sensual Among them, vacuum forming, and the impact of structural systems on the configuration, and the relationship between the drawing and the embodiment, the optical deception, and color theory. And to develop a sense of aesthetic values and apply them to architectural foundations.	**Course discription**
This course aims at: • introducing students the principles and elements of the three-dimensional design at the Art and Architecture in theory through the presentation and analysis of global business enrich the knowledge of the student • Develop a design student skills through practical exercises in the studio to develop	**Course aims**

the skill of perception and visual trickery, in the formation of three-dimensional configurations of the line, the surface, the cluster by using different raw materials	
The student upon completion of his study to this course is able to: • Specialized knowledge in the field of visual perception and deception, as well as a thorough understanding of the means of architectural configuration • expressive capabilities of the architectural ideas of development, through training at the ceremony to draw architectural forms and work models • To give the students practical skills in the field of architectural drawing • The ability to execute and output of architectural and architectural drawings of all kinds	**Course outcomes**

Free hand drawings		**Course name**		**.4**
Requirement specialization		**Course type**		
3	**Credit hours**	**ARC 2203**	**Course No**	

This course covers following the topics: • develop the capacity to express ideas, using various tools of expression, and without the use of engineering tools, as well as increase the student's sense of light and shadow and sizes and the nature of the material, color, shape, vacuum, space and texture • practical exercises in the ceremony include training on a variety of fee models, and to express them in various freehand drawing tools Koqlam lead, ink, wood colors, water colors, materials and other methods to achieve the objectives Course	**Course discription**
This course aims at: • Training the students in the ceremony on the free drawing of the forms and blocs taking into account the scale and understanding of bilateral relations and the three-dimensional. The course also seeks to introduce the principles of drawing geometric perspective • Increase the sense of light and shadow and sizes, and the definition of the principles of drawing geometric perspective, and through the training to draw a variety of models, or express them in various freehand drawing tools Koqlam lead, ink and colors of wood and watercolor	**Course aims**
The student upon completion of his study to this course is able to: • abilities expressive drawing for manual forms and sizes Development • impart practical skills of free drawing and colors of different kinds	**Course outcomes**

Methods of expressions in design		**Course name**		**.5**
Requirement specialization		**Course Type**		
3	**Credit hours**	**ARC2304**	**Course no**	

This course covers the topics: • teach a student his / her how to draw and use of architectural symbols to express the idea and show the architectural design various means manifestation, recognizing the scale is this course provides an introduction to architectural design courses • Study how drop shadows and painted exterior and interior perspective, highlighting the confirmation of visualization and simulation techniques. Linked to the divisions of the visual training and free drawing where visual sensation among students and a sense of proportion and proportionality development in the course visual training, as well as to identify the different ways of architectural manifestation in the course free drawing and applied to some of the exercises that the student / e prepared in the course ways of expression in design	**Course discription**
This course aims to: • Teach different ways to show the architectural expression using methods of engineering, measurements and dimensions in elevations and facades and sections processing, in addition to the work of maquettes methods. In addition to showing an integrated small project at the end of the course • To give the students the ability to view the architectural ideas and demonstrate the various design projects by architectural drawing	**Course aims**
The student upon completion of his study to this course is able to: • Understand and read architectural plans, elements and terminology of architectural drawing • acquire the skills for architectural expression of ideas and mastery of shadows and mechanisms Althishar in architectural drawing • Knowledge of materialisation of engineering plans for a three-dimensional stereo, whether foreseeable or draw virtually Tjsimh cardboard / wood.	**Course outcomes**

Analysis of Building Construction		**Course name**		**.6**
Requirement specialization		**Course type**		
3	**Credit hours**	**ARC 2305**	**Course No**	

This course covers the topic: • the basic principles of power, resistant materials, the foundations of the specific installations static analysis of trusses and frames • marbling account and study the animated installations loads • Search facilities behavior under loads located them and the extent of affected loads and posed underneath (Deformations) • To study the relationship between the structural and architectural design principles to facilitate the work of the engineer / architect of his / her.	**Course discription**

<table>
<tr><td colspan="4">This course aims to:
• To give the students knowledge skill constructional systems and structures on which major construction, and analyzed in terms of the structural stability and how to address them, and determine the expected external loads
• This loads a rating of where they live or dead loads, horizontal or vertical, or additional key, then the calculation of internal cutting forces and bending moments and axial forces</td><td>Course aims</td></tr>
<tr><td colspan="4">The student upon completion of his study to this course is able to:
• Knowledge of various construction systems, such as brackets, cables, frames, trusses and belts
• specific installations static analysis
• First: the calculation of internal stresses, such moments, tensile or shear, the various structural elements. Secondly marbling account of the specific facilities static
• Know the importance of identifying and selecting appropriate structural system of architectural design, with an understanding of the obstacles and mechanisms of its implementation, and therefore work on the integration of design</td><td>Course outcomes</td></tr>
<tr><td colspan="2">Building Surveying – Architecture</td><td colspan="2">Course name</td><td rowspan="3">.7</td></tr>
<tr><td colspan="2">Requirement specialization</td><td colspan="2">Course type</td></tr>
<tr><td>2</td><td>Credit hours</td><td>ARC 2206</td><td>Course no</td></tr>
<tr><td colspan="4">This course covers the topic:
• Introduction of basic space rules in line with the study and the needs of the student / architect of his / her
• the basic principles of space, and includes, for example, linear measurements, the survey using a measuring tape, measure the height of the points for specific levels and their applications in contour maps, learning theories errors with the mechanism used to avoid these mistakes and how to correct it
• Lectures detailed, which relates to an area of the track, and lifting the signature using measurement tools longitudinal work, measurement and Tsahahatha errors and finally the budget system and its various applications: such as, contour maps, sections, longitudinal and transverse, measurements of angles, Theodolat space Altakeomitrih, calculate areas and volumes, as well as various practical applications and projects on the computer.</td><td>Course discription</td></tr>
<tr><td colspan="4">This course seeks to:
• definition of the fundamental principles of the science of space through the theoretical part, as well as develop practical skills for students through training on hardware and cadastral works</td><td>Course aims</td></tr>
</table>

<table>
<tr><td colspan="4">

- develop teamwork skills to produce a practical project. Increase students' knowledge of the cadastral works, such as the design of the horizontal and vertical curves mechanism, longitudinal and lateral sections of roads, as well as areas and volumes accounts with measuring angles mechanism.

</td><td></td></tr>
<tr><td colspan="4">

The student upon completion of his study to this course is able to:

- the acquisition of cognitive skills in the basic principles in the science of flat space
- practical knowledge on the use of surveying devices
- Knowledge of the skills of teamwork
- Implementation of cadastral works perfectly, especially in the field of survey of buildings and streets.

</td><td>Course outcomes</td></tr>
<tr><td colspan="2">Planning & Islamic Architecture</td><td colspan="2">Course name</td><td rowspan="3">.8</td></tr>
<tr><td colspan="2">Requirement specialization</td><td colspan="2">Course type</td></tr>
<tr><td>3</td><td>Credit hours</td><td>ARC2307</td><td>Course No</td></tr>
<tr><td colspan="4">

This course covers the topics:

- The use of historical analysis as a tool to learn about the evolution of architecture and the development patterns, in addition to studying urban planning in the Islamic world since the dawn of Islam and even the near Covenant.
- Analysis of the architectural elements, methods and style of construction, features and functions of Islamic architecture in all its stages (Umayyad, Abbasid, Ayyubid, Fatimid, Mameluke and Ottoman). Linking contemporary development in various areas with the Islamic architectural evolution of Islamic architecture in the previous stages. Thus the focus is at the end of the course on modern experiments that aim to achieve continuity of architectural and structural elements of Islamic architecture.

</td><td>Course discription</td></tr>
<tr><td colspan="4">

The course aims at:

- Identify on Islamic architecture throughout the ages, study and analysis of the most important features, characteristics and advantages of each Islamic lifestyle
- Provide cognitive skill related to buildings and types of Islamic architecture style in different stages, as well as the design and decoration used strategies
- Identify Islamic urban planning strategies and how they appear and evolve
- take advantage of the characteristics of Islamic architecture and its application in architectural design
- Devise Islamic elements used across various stages appropriate to the surrounding environment, and thus the mechanism used in the current architecture.

</td><td>Course aims</td></tr>
<tr><td colspan="4">

The student upon completion of his study to this course is able to:

- Knowledge of architectural patterns of Islamic architecture since its inception until the present time, with the acquisition of cognitive skills, such as the characteristics and features of each style

</td><td>Course outcomes</td></tr>
</table>

• the acquisition of practical skills through the application of knowledge presented in lectures on the ground and on-site visits of Islamic buildings • acquire research skills by having students work reports and scientific research to acquire a knowledge of heritage values.				
Principles of Architecture & Environmental Design		**Course name**		.9
Requirement specialization		**Course type**		
4	**Credit hours**	**ARC2308**	**Course no**	
This course covers the topics: • Private foundations of emptiness and form architectural design (Kalatzan and harmony and rhythm, proportionality and others) and their relationship to other Spaces, as well as the surrounding environment and steps of the design process. • As well as the study of climate impacts, and the social, economic, technology and local materials and how to adapt in different contexts and for the sake of the development of the built environment • Apply to the problems related to the building solutions and in designing architectural project takes into account the environmental dimensions.				**Course discription**
This course aims to: • Identify the foundations of architectural composition and concept of the design and functional relations between the spaces and the design of the blanks • definition of the characteristics of traditional Arabic and Islamic architecture as a response to climate in the Arab areas • To give the students the skill of adapting knowledge influencing the architectural design of climate, such as solarization and ventilation elements and then the ability to be adapted to suit the requirements of the appropriate design of the surrounding environment. To identify the mechanisms used to create the design of an environmentally friendly, as well as the ability to overcome obstacles to its application in architectural design.				**Course aims**
The student upon completion of his study to this course is able to: • Formation of appropriate architectural design of the various functions and work of the most appropriate architectural configuration. Develop drawing skills architectural sketches to illustrate the philosophical ideas • The development of cognitive abilities of specialized architectural design methodology starting with an understanding of the design and analysis of the problem and proposing solutions and development, and to express them through different rollup. As this knowledge is the essential foundation majoring in architecture • Knowledge of the importance of knowledge of the various climatic elements of traditional architecture in the architectural design to achieve thermal equilibrium appropriate natural ventilation and achieve thermal comfort in terms of guidance, selection of local building materials. Production Clinical Project				**Course outcomes**

Design Concrets		**Course name**		.10
Requirement specialization		**Course type**		
3	**Credit hours**	**ARC3309**	**Course no**	
This course covers the topics: • Study the various construction systems and theories of structural design of concrete • Study design concepts and analysis on the basis of the Supreme stresses and strains of security, and the design of reinforced concrete elements, such as belts, columns, ceilings and foundations • Study constructional systems for halls structurally in a manner commensurate with the architectural design needs.				**Course discription**
This course aims to: • Enhance students' knowledge of the importance of structural aspects and their applications in architecture. • Study analysis and structural design mechanism, especially the design of concrete structures. Study design of reinforced concrete elements mechanism, such as belts, columns, ceilings, foundations and drawers.				**Course aims**
The student upon completion of his study to this course is able to: • the acquisition of knowledge and skill related theories BB different design of concrete structures • Different sections of concrete design, such as columns, bridges, slabs and foundations • Knowledge of using computer programs in design (analysis software and structural design) • The ability to appropriate architectural design for constructional requirements.				**Course outcomes**
Theories of Architecture		**Course name**		.11
Specialization requirement		**Course type**		
3	**Credit hours**	**ARC3310**	**Course no**	
This course covers the topics: • Study philosophical architectural trends in the world, began the industrial revolution, through the rapid changes in the nineteenth century until the present time • Review and analyze philosophical asset-ups, in addition to architectural styles and schools that have emerged in the nineteenth century and the twentieth century. This analysis deals with the study of cultural factors, social, economic,				**Course discription**

political and technical, which contributed to the development of these philosophical orientations • theoretical lectures include discussions in groups about the pioneer architects work, the most important business, and the strategy followed in the concept of the design for each pilot school and architectural, with addressing the importance of contemporary architecture • The study of urban trends in Arab and Islamic countries and its relationship with the philosophical trends in the atheist and the twentieth century.	
This course aims at: • Identify architectural movements and relay across different time eras. • Crystallize the impact of different circumstances that led to the emergence of architectural movements and trends. Highlighting the most important architects who have contributed to the emergence of new architectural movements, highlighting the intellectual philosophy in architecture.	**Course aims**
The student upon completion of his study to this course is able to: • Development of the design capacity and linking them to various philosophical trends • specialized knowledge of the theories of architecture in various international, Arab and local areas of intellectual and trends in architecture • acquire research skills by preparing for a Taqariraml architectural trends • The development of mental skills through the study of philosophy and theories of architecture as well as the development of a mechanism • Analytical skills development through the analysis of various architectural projects • Development of architectural criticism skills • Enhance the ability to debate architectural language and the names of architects	**Course outcomes**

Building construction 1		**Course name**		.12
Specialization requirement		**Course type**		
3	**Credit hours**	ARC3311	**Course no**	

This course covers the topics: • Familiarizing students with the executive side of the engineering projects in terms of identifying the different methods of construction. The details of the construction regulations, particularly the basic building stages: the organization of the site, earthworks, foundations, walls, floors, ceilings, stairs and others • How working drawings and detailed preparation of all structural construction elements (basic) and how to choose the most suitable architectural design for the building materials and construction methods available and the stages of construction. The course includes field trips to construction sites • Building materials: physical and engineering characteristics, use and performance in different environments. Specifications and applications in the building materials of concrete, steel, metals, glass, wood and various other building materials. Engineering tests required for construction materials and how they are implemented.	**Course discription**

This course aims at: • familiarizing students with building systems and its various elements • Study implementation mechanisms and supervision of the construction phases of the structural (primary) and various which include (foundations, walls, floors, ceilings, stairs and others • Knowledge of different materials to build and understand the composition of the Executive and requirements, and to identify the different characteristics and how to use them • Identify local building materials in terms of their location and mechanisms manufactured various forms • Identify engineering tests of materials • Drawing and show the shop drawings.	**Course aims**
The student after his study of this course are able to: • acquisition of checking shop drawings skill and read properly • Specialized knowledge of building systems. And its various elements and mechanisms of implementation stages of construction, especially Alheikili • acquire the ability to deal with architectural details and translate them in reality • the acquisition of practical skills through visits and follow-up the construction of various projects • production of a number of paintings for various graphics executive • Knowledge of the properties of construction materials engineering and physics and its applications • Understanding and awareness of the design process and integration with the construction work and building materials.	**Course outcomes**

Architecture Design Studio 1		**Course name**		.13
Specialization requirement		**Course type**		
3	**Credit hours**	**ARC 3312**	**Course no**	

This course covers the topics: • Study the residential building product aesthetic and functional, which consists of a limited, integrated and diverse number of jobs • historical study of human settlements and to identify the types and requirements, and to draw the design standards for housing of all kinds • Applied study various housing issues: the basic layout of residential units, taking into account the blocks in terms of shape and distribution on the site, housing types and aspects Alaguetsadahoalajtmaih, environmental design for residential houses, and evaluation criteria and choice in housing • A large residential project in addition to a project or two simple exercises	**Course discription**
This course aims to: • Training students to solve design problems and find solutions for the design of residential buildings and architectural elements in a systematic and scientifically sound way to meet the functional and aesthetic needs and	**Course aims**

Alaguetsadahoalajtmaih and construction • Accurately identifying patterns of some buildings, especially residential, types and methods of design different kinds of functional relationships between the components and the design requirements. Identified on the basis of the design of residential buildings ranging from independent housing units, residential buildings and small housing projects.	
The student upon completion of his study to this course is able to: • Perform any design process via the serial process design steps • acquisition of analytical skills through case studies to be considered in the design courses where they are studying and analyzing case studies of similar projects that are required to design, especially in the field of housing • the acquisition of practical skills through discussions that govern each project by the committees from within the department and outside • Acquisition of mental skills through structured thinking is based on the sequence in the steps thinking to arrive at conclusions and provisions in a logical manner. • acquire research skills through research prepared by the students • Acquire teamwork skills.	**Course outcomes**

Introduction to Urban planning		**Course name**		.14
Specialization requirement		**Course type**		
3	**Credit hours**	**ARC3313**	**Course no**	

This course covers the topics: • Study of the basic concepts of the planning of the theoretical side, and part practically be addressed at the ceremony and art workshops so that students are learning through a preview of real practical problems • Study underlying theories, principles and skills required in the urban planning of the physical environment in the theoretical side • Study of Urban Planning Basics for the design of the site from where the study of the blocks and voids formed, concepts, tools and logic practice, and basic communication skills and steps to prepare the plans • Study of the detailed planning of local and regional levels, as well as detailed planning and sectoral • Study the impact of social and economic aspects that affect the physical environment planning.	**Course discription**
This course aims to: • Achieve cognitive skill related concepts and basics of planning, theories of urban planning, site design strategies used in it • Identify understand planning all kinds of levels, and understand the process of planning steps, and the importance of planning to achieve a healthy environment. Access to understand the role of the planning institutions, recognizing the nature of planning in addition to crystallize the different dimensions, such as environmental and planning policies influential in the	**Course aims**

creation of a healthy environment.	
The student upon completion of his study to this course is able to: • Knowledge of the concepts of ancient and contemporary planning at the international level, regional and local • Acquire the skill of mind by recognizing the planning stages at different levels through the analysis of the problems and participate in the development of various schemes for each • develop teamwork skills • Communication skills and communicate through the identification of local and regional institutions involved in planning next, and deal with them directly. Completion of projects through teamwork.	**Course outcomes**

Introduction to Interior Design		**Course name**		.15
Specialization requirement		**Course type**		
3	**Credit hours**	**ARC3314**	**Course no**	

This course covers the topics: • Key issues for interior design: like the concept of interior design, it arises as a profession, the design of the interior spaces, Annasralamstkhaddmh to decorate the interior spaces, past and present designers internal business • Factors that influence in interior design and in particular the principles of design, lighting, color theory, interior design patterns and different materials in the interior finishes. Assessment of internal vacuum familiar to students, where it is an analysis of internal voids to him, and to identify the problems and find the solutions proposed.	**Course discription**
This course aims to: • Identify the foundations of the design of the interior spaces and considerations relating thereto, such as lighting, color, ventilation and building materials • Training on the design of the furniture and get to know the internal design of the vacuum their own standards • put the output your interior design projects and Manifesting mechanisms • Identify elements of architectural decoration in the blanks and the foundations of its application • Solving design problems of internal voids.	**Course aims**
The student after his study of this course is able to: • Knowledge of the foundations and criteria for the design of interior spaces in terms of functional respects, the movement and the choice of materials and	**Course outcomes**

colors, and others • Acquire the skill of mind by thinking organized to find solutions to the problem of design • Acquisition of analytical skills through the study of examples and case studies • Production project in the field of interior design	

Architecture Landscape		**Course name**		**.16**
Specialization requirement		**Course type**		
3	**Credit hours**	**ARC3315**	**Course no**	

This course covers the topics: • Study the importance and methods of design of public facilities such as parks and parks. And its relationship to architecture, interior design and planning as sites coordinate complementary and unified central part of the building • Sites coordinate systems, selecting plants. Focus on the types of gardens and plants familiar in Palestine, The course includes practical Nzeraoparwa part.	**Course discription**
The course aims at: • Identify the different types of gardens Ages, and methods used in planning • conclusion of environmental considerations of different regions and how to find appropriate design solutions • Understand the relationship between the site of cultural, environmental and sustainable concepts coordinate considerations • Find a mutual functional relationship between the internal and external environment	**Course aims**
The student upon completion of his study to this course is able to: • the acquisition of cognitive skill, specialized knowledge of the types of plants and elements of the coordination of the site in terms of their requirements and their uses and to distinguish them • awareness and understanding of the concept of sustainability must be Mraathave parks and open areas design • Knowledge of social and economic challenges, understood and taken into account when the site format • full awareness of the details of the elements and coordination of internal and external spaces • Monetary through identifying and discussing a number of projects • Acquire the skill of mind by thinking regulator to reach a solution of design problems • the acquisition of practical skills through discussions organized for projects • Produce my design project in the field of web format	**Course outcomes**

Building Construction 2	**Course name**	**.17**
Specialization requirement	**Course type**	

3	Credit hours	ARC 3202	Course no	
This course covers the topics: • Study finishes interior and exterior of buildings, expansion and contraction and landing intervals, and insulating materials, Alnho interior materials, kitchens, bathrooms, fireplaces, doors and windows. Drawings and details of buildings Medium Size setting in accordance with standard construction standards.				**Course discription**
This course aims at: • familiarizing students with building systems and its various elements • Identify mechanisms for implementation and supervision of construction of the different stages and special finishes, such as electrical and plumbing installations, plastering, painting and tile cladding, kitchens, bathrooms, doors, windows, and others • Drawing and show the shop drawings.				**Course aims**
The student after his study of this course is able to: • Acquisition of checking shop drawings skill and read correctly • Specialized knowledge of building systems and its various elements and mechanisms of implementation stages of construction and special finishes • acquire the ability to deal with architectural details and translate them on the ground • The acquisition of practical skills through visits and follow-up the construction of various projects. The production of a number of paintings for various graphics executive				**Course outcomes**
Architecture Design Studio 2		**Course name**		**.18**
Specialization requirement		**Course type**		
3	**Credit hours**	**ARC3318**	**Course no**	
This course covers the topics: • The design of public buildings and private commercial and administrative buildings, described the design standards of public, commercial and administrative buildings. While providing a methodology for Tsamimkastratejah through studies and analysis required by the design to solve traffic problems and functional relations Work on a major project and one in addition to a smaller scale exercises.				**Course discription**
This course aims to: • Identify training students to solve design problems and find solutions for the design of buildings, structures and architectural elements in a systematic and scientifically sound way to meet the functional, aesthetic and economic,				**Course aims**

social and structural needs • precise identification of certain types of public buildings and private commercial and administrative types and methods of design and functional relationships between the components and the design requirements Identified on the basis of public buildings, commercial, administrative and special design	
The student after his study of this course is able to: • Cognitive skill acquisition methodology of architectural design from the design and analysis of understanding the problem and offering solutions and developed and expressed in the show. Since this knowledge is the cornerstone of majoring in architecture • Any design process via serial design process steps • Analytical skills through case studies examined by students of design courses where they are studying and analysing case studies similar to projects that are required to design, especially in public buildings and private businesses • Applied skills through discussions for each project by committees from within and outside the Department • Mental skills through organized thinking building on the sequence steps in thinking to reach conclusions and judgements logically • Research skills through reports prepared by students • Acquiring national and humanitarian values by highlighting the heritage values in modern designs • Teamwork skills • Produce a number of design projects.	**Course outcomes**

Urban Design		**Course name**		**.19**
Specialization requirement		**Course type**		
3	**Credit hours**	**ARC4319**	**Course no**	

This course covers the topics: • Study urban design on a level part of the urban environment, such as coordination of street and urban spaces that was forming between the blocks, and even on a greater level, like counties, towns and cities. • Dealing with urban design of place and space, environmental and material aspects and issues, including the shape of blocks and urban emptiness and movement, time and activity patterns. • Urban design somewhere to place form design and its relationship to the blocks, the impression given, movement and traffic, embedded meanings, and how their performance for their users • Lectures and practical project within the Studio	**Course discription**

This course seeks to: • Strengthen capacity of urban space design by understanding the physical environment surrounding the construction and building group relationship with each other and with the urban space. • Study urban design theories and their applications. • Study of urban design environment, including areas and urban areas in terms of function space and movement and traffic regulation shape and mass and the urban fabric and the external environment of afforestation and seats, umbrellas etc. • Identify ways to improve the urban environment and neighbourhood renewal.	**Course aims**
The student after his study of this course is able to: • Understanding the relationship of the building with a group of buildings and urban spaces that was forming around her. • Specialized knowledge in the field of urban environment and design fields, street design, a set of buildings with different facilities design point to understand the theories of urban upgrading and mechanisms to renew neighborhoods. • Understand relationship of form and function and urban fabric alagtmaaihwalaktsadih and heritage. • Any design process at the level of the urban environment through the design process serial steps. • Analytical skills through case studies examined. • Mental skills through organized thinking building on the sequence steps in thinking to reach conclusions and judgements logically. • Teamwork skills. • Production project in urban design	**Course outcomes**

Introduction to GIS		**Course name**		.20
Specialization requirement		**Course type**		
3	**Credit hours**	**ARC4320**	**Course no**	

This course covers the topics: • Study information systems, basic concepts in geographic information systems. • How to collect data and converted and processed. • Examine the uses and applications of GIS in planning through practical examples (database design, automate information, spatial data analysis). • Identify the software related to the course content and method used. • Include a theoretical and practical part part two applied in computer labs.	**Course discription**
This course aims to: • Identify the concept and applications of geographic information systems.	**Course aims**

• Understand data collection strategies, and entered as well as develop a mechanism utilizing these strategies applied in engineering projects using geographic information systems software • Identify the exact method of using computer programs related to geographic information systems	
The student after his study of this course is able to: • Acquire specialized knowledge in the field of geographic information systems and related software • Adraknzom databases and raster spatial data models and vector data. • Understanding the mechanisms of data input methods software related to geographic information systems, analysis and practical use in planning projects and infrastructure. • Acquire the skill of teamwork	**Course outcomes**

Drawing using computer graphic		**Course name**		.21
Specialization requirement		**Course type**		
2	**Credit hours**	**ARC3217**	**Course no**	

This course covers the topics: • Study computer software for architecture and architectural anthropomorphism, and applications. • Learn to adapt the computer in the design process by creating models, visualization and analysis of building design. • Drafting of a 3D model, and show architectural design projects externally and internally using the latest software available.	**Course discription**
This course aims to: • Learn to use architectural design software (Photoshop, 3D Studio Max, and the sketch lab) in architectural design. • Seek to develop design skills and abilities through the use of relevant software, as this course aims also to improve design productivity. • Improving the quality of architectural design and engineering work. • Good understanding of the third dimension to the idea there are altsamimp through the use of computers and to exchange ideas and develop them.	**Course aims**
The student after his study of this course is able to: • Acquire specialized knowledge in software architecture. • Master the use of these programs for expressing architectural ideas as well as architectural display. • Acquire knowledge of various computer programs in architecture.	**Course outcomes**

<table>
<tr><td colspan="4">• The implementation of a number of architectural projects drawn in different computer programs</td><td></td></tr>
<tr><td colspan="2">Architecture Design Studio 3</td><td colspan="2">Course name</td><td rowspan="3">.22</td></tr>
<tr><td colspan="2">Specialization requirement</td><td colspan="2">Course type</td></tr>
<tr><td>4</td><td>Credit hours</td><td>ARC4423</td><td>Course no</td></tr>
<tr><td colspan="4">This course covers the topics:
• Cultural and educational building design study on the scope of the site design and complex tasks by integrating various functions taking into account environmental and behavioral factors and structural construction.
• Design of cultural and historical values, images and patterns, trading systems and the flow of space.
• Two major and one minor one.</td><td>Course discription</td></tr>
<tr><td colspan="4">This course aims to:
• Identify and draw the design problems and solutions for the design of buildings and cultural or educational facilities, for example.
• Acquire the ability to design architectural elements in a systematic and scientific philosophical basis of aesthetic needs on his face, taking into account the functional design and construction walaktsadihwalagtmaaih.
• Knowledge of patterns of public buildings, especially the cultural, educational and recreational types and methods of design and functional relationships of the internal vacuum achieve different functions and provide design requirements.
• Learn the basics of designing public buildings primarily philosophical basis, and particularly the focus in this course on cultural, educational and recreational buildings.</td><td>Course aims</td></tr>
</table>

The student after his study of this course are able to: • Acquire specialized knowledge in architectural design methodology beginning with the design and analysis of understanding the problem and offering solutions and developed and expressed in the various display where this knowledge is the cornerstone of majoring in architecture. • Any design process via serial design process steps. • Analytical skills through case studies taught in design courses where they are studying and analysing case studies similar to projects that are required to design, especially in the field of public and private buildings of cultural, educational and recreational activities. • Applied skills through discussions for each project by committees from within and outside the Department. • Mental skills through organized thinking building on the sequence steps in thinking to reach conclusions and judgements logically. • Research skills through the research. • Acquiring national and humanitarian values by highlighting the heritage values in modern designs • Teamwork skills. • Produce a number of design projects	**Course outcomes**

Environmental System in Architecture		**Course name**		.23
Specialization requirement		**Course type**		
3	**Credit hours**	ARC4321	**Course no**	

This course covers the topics: • Study various environmental systems and their applications in buildings, such as health, water supply engineering, sanitation, lighting and acoustics and thermal insulation and mechanical installations. • Includes two parts, theoretical and practical projects and part laboratory practice.	**Course discription**
This course aims to: • Identify the impact of modern technology in the design and construction process. • Learn the scientific foundations for principles of heating and cooling, plumbing, lighting, acoustics and its applications in buildings. • Familiarity with various environmental issues.	**Course aims**
The student after his study of this course are able to:	**Course outcomes**

• Gain a full awareness of the relationship between the architectural design and related environmental issues in terms of satisfaction warming, saving energy, acoustics and other processing • Calculating and assessing the environmental performance of buildings through software • Tethering capability for all phases of architectural design architectural issues and environmental issues in terms of architectural space design externally and internally • Produce a practical project	

Architecture in Palestine		**Course name**		.24
Specialization requirement		**Course type**		
3	**Credit hours**	**ARC4325**	**Course no**	

This course covers the topics: • Traditional architecture in Palestine, in terms of types, architectural elements, architectural styles, the most distinctive architectural features, architectural effects of successive eras to Palestine, their models and forms, materials and techniques used in construction. • Study the evolution of architecture in Palestine and cultural factors walagtmaaihwalaktsadih and legal role in refining the architecture features. • An analytical theory part and another part is designed to review and study the architectural buildings in Palestinian towns and villages	**Course discription**
This course aims to: • Identify the characteristics of Palestinian architecture patterns using the timeline as an analytical tool, focusing on the most important architectural elements and distinctive style • Knowledge of building materials and construction technology used in architecture. • Draw method used the Palestinian town and city planning and layout elements and different configuration of space and place. • Knowledge of the architectural heritage in Palestine. • Developing status commensurate with contemporary circumstances without compromising cultural identity in Palestine.	**Course aims**
The student after his study of this course are able to:	**Course**

• Gain knowledge of different styles in Palestinian architecture through the ages. • Awareness of the evolution of architecture in Palestine in terms of design, planning and construction details and hallmarks of Palestinian architecture, in terms of architectural elements used. • Skill acquisition applied through field visits to some traditional buildings in Palestine. • Acquire research skill through the preparation of a working paper on course. • Strengthening the sense of belonging and home and highlight heritage values.	**outcomes**

Architecture Design Studio 4		**Course name**		.25
Specialization requirement		**Course type**		
4	**Credit hours**	**ARC4426**	**Course no**	

This course covers the topics: • Study agricultural and industrial buildings. • Industrial buildings at different levels, therefore, this course includes design of small workshops and even heavy industries, agricultural buildings of various types, cattle farms, chicken, sheep and more. • Design principles and characteristics of industrial and agricultural buildings and its relationship with the surrounding environment. • Consists of two projects: one master, taking into account the structural system of the building, and the other minor design standards are applied and design requirements for industrial and agricultural buildings.	**Course discription**
This course aims to: • Give the student the ability to solve design problems, as well as solutions for the design of buildings and structures, with the use of architectural and construction elements in a systematic and functional needs sound scientific, aesthetic, structural, and design requirements. • Knowledge of patterns of public buildings, agricultural, industrial and special address types and methods in their design, with reference to the functional relationships between spaces and design requirements. • Familiarity with agricultural and industrial buildings grounds, in particular.	**Course aims**
The student after his study of this course is able to: • Gaining cognitive with as regards architectural design methodology, starting with design and analysis of understanding the problem and offering solutions in the ceremony and a mechanism developed, up to the ways of different means of expression show. • Any design process via serial design process steps with regard to industrial or agricultural buildings. • Analytical skills through case studies that examine, study and analyse case	**Course outcomes**

studies of similar projects that are required to design, especially in the field of agriculture and industry.

- Applied skills through discussions for each project by committees from within and outside the Department.
- Mental skills through organized thinking building on the sequence steps in thinking to reach conclusions and judgements logically.
- Research skills through research conducted by students.
- Improve teamwork skills.
- Produce a number of design projects efficiently.

Appliction of Computerised Architecture		Course name		.26
Specialization requirement		Course type		
2	Credit hours	ARC4422	Course no	

Course discription

This course covers the topics:

- Software applications relevant to architectural design
- Introduction to how to use design software for architects in bilateral or trilateral dimension.
- Use the AUTOCAD program, by identifying the tools provided by the program for drawing on a bi Baad, like draw floor plans and facades.
- Tools are available in the print program and project output.

Course aims

This course seeks to:

- Understand the tools and icons available in the AutoCAD program to facilitate the project output.
- Understand the role of software in the output of the architectural design, architectural production and the development of architectural design and output vialbad Duo and trio.
- Understand the mechanism of action of icons and tools available in AutoCAD program, as well as its applications to draw architectural elements, walthshir, as well as printing

Course outcomes

The student after his study of this course are able to:

- Cognitive with that skill acquisition tools AutoCAD drawing program binary and 3D
- Keep abreast of technological progress, in terms of improving productivity for the architectural project and show.
- Gain practical skill concerning the production of mamariwakhragh project using computer programs.

Architecture conservation		**Course name**		.27
Specialization requirement		**Course type**		
3	**Credit hours**	**ARC5328**	**Course no**	
This course covers the topics: • Study theories of architectural conservation. • Study technical, legal and economic factors and social problems affecting the preservation of historic buildings and archaeological sites. • Study strategies for maintaining historic buildings. • Addressing the international conventions concerning the preservation of historic buildings and archaeological sites. • Careful study of conservation used in scientific references: This includes scanning and authentication, as well as the analysis of the problem and the rehabilitation of the elements, and thus learn techniques for preserving and building material properties.				**Course discription**
This course seeks to: • Familiarity with the concepts of conservation and protection and maintenance and construction control in areas with archaeological and historical value. • Knowledge of the issues and problems related to historical sites and buildings and evaluation. • Develop basic concepts in theories of architectural conservation, historical development, contemporary international regulations and instructions relating to architectural conservation				**Course aims**
The student after his study of this course is able to: • Cognitive skill acquisition in relation to scientific research techniques for documenting historic buildings and sites which will be recorded, protected and preserved in course. • Identify the strategies and policies of architectural conservation and urban, as well as urban and architectural conservation techniques used in scientific references. • Undertake conservation projects through discussion and analysis of the case studies include social aspects, economic, architectural and preserving historic buildings and rehabilitation. • Analysis and conclusion, opinion and discussion on architectural heritage and rehabilitation issues. • Presentation skills and presentation of ideas and opinions on others and the power of persuasion and the ability to participate in the production of joint action.				**Course outcomes**

• Produce a practical project in the field of architectural conservation. • Knowledge of the properties and characteristics of the raw materials	

Field Training 1		Course name		.28
Specialization requirement		Course type		
1	Credit hours	ARC5129	Course no	

This course covers the topics: • Training students in the field of architectural design and supervision and implementation in an Office or engineering companies, according to the instructions issued by the Department Council. • Field training for students under the supervision of instructor and student joined the Office for training, where the student through the Office working with the engineer supervisor Engineering Office projects in various buildings and sites in all stages of the construction of piling and building structure and stages until the final stages. • Training students in engineering offices and some competent design and construction companies to use and apply their knowledge and what has been studied in courses of specialization, the student must also submit weekly reports throughout the training period to illustrate the path field training and skills acquired.	**Course discription**
This course aims to: • Enable students to follow the different stages of construction, and impart practical experience through contact with the labour market. • Clarify the role and responsibilities of the job site supervision and construction methods. • Focus on developing a team spirit between the student and the supervisor. • Motivate students to pay attention to the proper orientation and training to make the most of the training.	**Course aims**
The student after his study of this course is able to: • Individual work skills and teamwork. • Learn what corporate workflow and engineering offices, advisory services and public and private actors involved. • Acquire some practical skills and process related direct and indirect management and business skills on different architectural areas provide fertile ground for entering the labour market.	**Course outcomes**

Architecture	Course name	.29

Specialization requirement		Course type		
4	Credit hours	ARC5430	Course no	
This course covers the topics: • Design of multiple-use complex of buildings, or use a combination of methods development in the context of linked to the urban fabric, such as sites in central urban areas or in other locations where urban design is required before designing individual buildings. • Professional approach where students develop project requirements as a result of the architectural and social, economic analysis of the study area. The course includes a major one project with the potential difference in the site.				**Course discription**
This course aims to: • Improved ability to solve design problems and solutions for the design of buildings, installations and architectural elements in a systematic and scientific walaktsadihwalagtmaaih functional and aesthetic needs and construction. • Identify the exact some multiple-use building styles and methods of design and functional relations between components and design requirements.				**Course aims**
The student after his study of this course are able to: • Gaining cognitive with as regards architectural design methodology beginning with the design and analysis of understanding the problem and offering solutions and developed and expressed in the show. Since this knowledge is the cornerstone of majoring in architecture. • Any design process via serial design process steps. • Analytical skills through case studies taught in design courses where they are studying and analysing case studies similar to projects that are required to design, especially in large projects and multiple functions. • Applied skills through discussions for each project by discussion committees from within and outside the Department. • Mental skills through organized thinking building on the sequence steps in thinking to reach conclusions and judgements logically. • Research skills through research conducted by students. • Acquiring national and humanitarian values by highlighting the heritage values in modern designs. • Teamwork skills				**Course outcomes**
Introduction to Graduation Project		**Course name**		.30
Specialization requirement		**Course**		
3	**Credit hours**	**ARC5331**	**Course no**	
This course covers the topics:				**Course**

• The student's choice of dissertation topic in architecture. • A research report about the importance of the chosen topic and its role in advancing scientific research in this field and its originality and design criteria for the chosen topic and research problem and select the project program. • Study case studies, selection and analysis of the project site.	**discription**
This course aims to: • Focus on one area of the different architecture Sciences. • Prepare preliminary studies and collect the information needed to design the project in course (graduation project – building). • Develop a program of graduation project and choose a location. • Rehabilitation of design capabilities through graduation project to cope with the aspirations of the labour market.	**Course aims**
The student after his study of this course is able to: • Gaining cognitive with as regards the development of capacities in scientific research skills and assets. • Choose project to specialize in Sciences and its various aspects. • Mastering the collection of information and materials for graduate work. • Submission of proposals and preliminary studies for the project. • Knowledge of various scientific research methods and research skill. • Acquiring skills, and communication skills through field visits and analysis of case studies.	**Course outcomes**

Specifications & Bills of Quantaties		**Course name**		**.31**
Specialization requirement		**Course type**		
1	**Credit hours**	**ARC5129**	**Course no**	

This course covers the topics: • Examine the preparations necessary for the preparation of tenders and specification of building materials in terms of quality, level of industrialization and the methods applied. • Focus on acting through the tables and diagrams and instructions, plus specifications and application. • Individual and collective projects, that are handled and practice calculating quantities in a practical way.	**Course discription**
This course aims to: • Update knowledge of engineering project design after the session. • Knowledge of engineering and technical specifications for various construction	**Course aims**

materials and how to formulate specifications. • Create and prepare students for the working life of engineering practice. • Acquire the ability to calculate the quantities of project engineering and measurement method.	
The student after his study of this course are able to: • Gaining cognitive with as regards all matters relating to types of engineering projects and project life cycle engineering. • Familiarity with matters relating to the types of engineering contracts and contractual relations between parties involved in construction. • Know the scientific basis for the selection of the contractor. • Knowledge of all matters relating to the work of the sizes of all engineering works. • See General specifications for construction materials and how	**Course aims**

Field Training 2		**Course description**		**.32**
Specialization requirement		**Course name**		
1	**Credit hours**	**ARC5134**	**Course no**	

This course covers the topics: • • Practical applications, which seeks mainly to support the student information in appropriate practical applications of theoretical aspects, significant impact in the development and refinement of their intellectual and practical. • Train the student to execute and oversee all stages finishes in architectural construction buildings and plaster and paint and the doors and Windows and marble and tiles and external cladding of stone and plaster and tile work and indoor and outdoor decorations. • Focus on the practical application of the community and the institutions that students could work in the future as well as bridge the gap between theoretical and applied material. • Applied and practical skills necessary for a career in the future, so this course deals with the tasks of preparing qualified graduates able to rely on their own capacities in tender and construction and meet the needs of the labour market.	**Course discription**
This course aims to: • Develop students ' ability to learn and self-reliance. • Build self-confidence of students. • Student skill development process in information search and rated and raise her to prepare a report on field training. • Student application of knowledge and information obtained during academic studies in practice and see how their interdependence. • Target the practical skills to face the reality of the job by improving	**Course aims**

communication skills and dealing with staff training. • Target and improve the skill of regularity and precision and speed in completion of the works and how to deal with the problems actually work in the field	
The student after his study of this course is able to: • Acquiring cognitive with that skill to develop their abilities to perform role play individually or within a team. • Learn what corporate workflow and engineering offices, advisory services and relevant public and private bodies, competence, inform students on legal proceedings. • Acquire some practical skills and the process of direct and indirect relationship with management and business skills on various administrative areas, providing fertile ground for entering the labour market.	**Course outcomes**

Graduation Project–Architecture		**Course name**		.33
Specialization requirement		**Course type**		
5	**Credit hours**	**ARC5335**	**Course no**	

This course covers the topics: • Extension of the student project which was developed during the course Introduction to graduate. • Design, develop and present the project to reflect high standards of academic quality, and ability to articulate and professional guidance. • Focus on the physical, environmental, structural and other related issues. • Providing project and show the utmost architectural manifestation levels and offers with your search for the course Introduction to graduate, and form a Committee to discuss and assess the material submitted.	**Course discription**
This course seeks to: • Complete the project chosen within the course Introduction to graduate. • Design solutions appropriate to the research problem identified in the search. • Highlight and test students' abilities in the field of architecture and studied for years of specialized study in Architecture Department. • Architectural and performance improvements linked to all aspects related to this performance of construction, environmental and other systems. • Improve the specialized knowledge of architectural design methodology, starting with design and analysis of understanding the problem and offering solutions and developed and expressed in the various display where this knowledge is the cornerstone of majoring in architecture. • Develop design skills for any design process via serial design process steps.	**Course aims**

The student after his study of this course is able to: • Complete work on graduation project chosen in the course Introduction to graduate. • Applied knowledge and skills through discussions for each project by committees from within and outside the Department. • Mental skills through organized thinking building on the sequence steps in thinking to reach conclusions and judgements logically. • Acquiring national and humanitarian values by highlighting the heritage values in modern designs. • Production project and presented in charts and pictures as well as a folder containing what was staged at the front after the amendment on the charts and a folder as your system partition (3 copies). • Developing teamwork skills. • Capacity development in General is design	**Course outcomes**

Principles of Urban Sociology		**Course name**		.34
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5337**	**Course no**	

This course covers the topics: • The importance of the study of the built environment, their social structure and fabric, as well as interest in the culture of human populations and their impact on urban design for different sites. • Study and analysis of the psychological and social ideas that are affected by the relationship between the individual and the environment, and compare it with the local reality. • Study the city as one social unit in itself in terms of its inception and growth and development based and function, and analysis of the problems arising from this growth and development. • Study the interrelationship between human behavior and the surrounding urban environment.	**Course discription**
This course seeks to: • Link building social communities that you design. • Understanding the built environment, their social structure and tissue culture of societies. • Understand the impact of the built environment on urban design. • Understand the psychological and social ideas that are affected by the	**Course aims**

relationship between the individual and the environment. • Understand the complexity in terms of city planning, being one social unit in itself in terms of its inception and growth and development construction and function, in terms of the problems arising from this growth and development. • Perception diagrams associated with architectural design, especially social, demographic and psychological.	
The student after his study of this course is able to: • Gaining cognitive with as regards the components of the built environment and its impact on architectural design and planning. • Awareness of the social and demographic and psychological aspects influencing the design and layout. • Research skills through research conducted by students. • Mental skills by linking social and demographic matters of design and planning.	**Course outcomes**

Advanced Construction Technology		**Course name**		**.35**
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5338**	**Course no**	

This course covers the topics: • Modern technological methods for constructing buildings, cover large surfaces by means of modern technology, modern building materials and methods of their implementation and application in buildings. Extrusion and cover large areas by means of different modern construction technology coverage.	**Course discription**
This course aims to: • Complete the student studied building construction systems in buildings 1 and 2 courses. • Understanding of modern technological methods in the construction of buildings and their applications and methods of charting their own Executive. • Improve capacities in architectural design for construction of buildings for large installations and means to cover them and constructed. •	**Course aims**
The student after his study of this course is able to: • Gaining skill checks to drawings of modern technology to create and read them properly. • Specialized knowledge of modern construction systems and various components and mechanisms and private construction phases. • Acquire the ability to deal with architectural details and translate them into reality. • Practical skill acquisition through visits to various construction projects.	**Course outcomes**

• Produce a number of paintings of different operational graphics				
Energy Systems in Architecture		**Course name**		.36
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5339**	**Course no**	
This course covers the topics: • Traditional and modern various systems for energy and its applications in architecture. • Study and applications of solar energy, renewable energy, design of buildings of various types of public housing and other energy systems for twins.				**Course discription**
This course seeks to: • Understanding and awareness of the various traditional and modern systems of energy and its applications in architecture. • Identify the latest research and studies of solar systems, renewable energy and its applications in architecture. • The rational use of energy and provide operating expenses for buildings.				**Course aims**
The student after his study of this course are able to: • Cognitive skill acquisition, regarding the various energy systems and their applications in architecture. • Awareness of environmental issues and the ability to handle and apply them in the design and planning. • Practical skill acquisition through tests and applications of theories in practical examples. • Produce a practical project				**Course outcomes**
Architectural and urban contemporary issues		**Course name**		.37
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5340**	**Course no**	
This course covers the topics: • The most important developments in the areas of architecture, so as to broaden the student architect to strengthen its capabilities in expressing his ideas and refine the Queen of architectural analysis and critique. • Various studies of major developments and trends in topics related to architecture and urbanism. • Analysis and critique of the most important ideas and currents of contemporary architecture, with an emphasis on characterization of different experiences that can be exercised by architect in his career, in addition to the analytical study of				**Course discription**

the work of a number of global architects including architects Arabs and Palestinians.	
This course seeks to: • Increase awareness of contemporary urban and architectural issues. • Knowledge of the most important developments and trends in topics related to architecture and urbanism. • Capacity development in the field of analysis and criticism.	**Course aims**
The student after his study of this course is able to: • Cognitive aktsabmharh, regarding link and belonging to the profession by highlighting current variables and challenges associated with issues affecting architecture and urbanism. • Communicate with institutions and architects, to know the latest studies regarding the issues contemporary urban architecture. • Research skill acquisition through research in a topic related to architectural and urban issues. • Acquire the skill of mind through analysis and critique of architectural works and urban and architectural product in various fields.	**Course outcomes**

Computer application in architecture 2		**Course name**		.38
Concentration requirement		**Course type**		
2	**Credit hours**	**ARC5241**	**Course no**	

This course covers the topics: • Mechanism of application software for architecture and architectural design and architectural stereoscopic display. • Focus on learning how to use computer software in the design process by creating models, visualization and analysis of building design. • Advanced study to formulate a 3D model, and show design projects either architectural or interior designs using the latest software available.	**Course discription**
This course seeks to: • Acquisition of student ability to use architectural show (Photoshop, 3D Studio Max and the sketch) identigraph. • Develop the skills and capabilities to show third dimension architect, and also those relating to design productivity. • Improving the quality of architectural design and engineering work. • Good understanding of the third dimension of architectural design through software applications.	**Course aims**

The student after his study of this course is able to: • Acquire specialized knowledge of techniques and recipes software architecture and how to use them in the show. • Gain practical knowledge in software architecture, especially those relating to the third dimension in architectural display. • Acquiring the ability to produce a number of architectural projects using different software	**Course outcomes**

Architecture Critiques		**Course name**		.39
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5342**	**Course no**	

This course covers the topics: • Scientific method for architectural analysis and evaluation of architectural design. • Evaluation and analysis through philosophy used idea and expressive language used in the architectural project output. • Application to list projects through monetary mechanism, through which to analyze the architectural elements used, the design idea and also the architectural style used to achieve the greatest purpose of the architectural project. • Study concept design idea, expressive language of architectural design, and finally pasted the architect in the perceived meanings design.	**Course discription**
This course seeks to: • Understand what good and architectural design to achieve is. • Improve architectural design tasting skills on scientific and philosophical. • Understand the concepts which based construction monetary mechanism raises the design to form a common language and professional defense method depends primarily on convincing others the idea of architectural design. • Recognize the role of architecture in leading life paths in spaces designed, as well as the role of the architect/engineer/in a better life. • Understand architecture as not only design blocks and blanks perceptible, but tmtdelthaki the local culture and environment, where it's not purely a work of art, but it's the intersection between scientific foundations of geometry and art to move other feeling and their impression about design.	**Course aims**
The student after his study of this course is able to: • Ability to analyze and evaluate philosophical foundations and architectural	**Course outcomes**

design. • Building profile architectural taste and analytical skills refined construction. • Qualification for working life, by gaining the ability to assess and understand good architectural project. • Gain knowledge of several philosophical orientations and to develop the idea. • Acquire skills relating to analysis and assessment of architectural design. • Understand the concept of students of architecture and the role of the architect in building healthy life meets the requirements and needs of the community.	

Construction of Buildings 3		**Course name**		**.40**
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5343**	**Course no**	

This course covers the topics: • Complementary to the construction of buildings 2, where he teaches the course of modern developments in the field of building systems and construction, and technical developments in the building materials industry and Siding exterior and interior walls, ceilings and floors. Curtain walls and cover large areas by means of different coverage and technology of modern construction. The study of the mechanical systems and requirements of the building, so by understanding the requirements of these systems, and includes mechanical ventilation, heating and cooling systems, and the types of elevators and mechanical stairs and belt conveyors and requirements of the architecture, and the fire and architectural requirements for design extinguishing systems	**Course discription**
This course seeks to • Understand modern technological ways in construction of buildings and applications • Knowledge of modern methods of construction materials processing external and internal walls and floors • Identify mechanisms of implementation and supervision • enable students to deal with the wide open spaces and building their own systems and buildings, pre-processing and pre-stress and spatial installations and coverages. • Understand the working drawings and details Almmarihwalanchaiah own links to installation and construction and installation methods of different coverages buildings stereochemistry huge. Drawing and shop drawings show.	**Course aims**
The student after his study of this course is able to: • Acquisition of checking shop drawings skill and read correctly • Acquire specialized knowledge and modern construction systems and its various elements and mechanisms of implementation stages of construction and special finishes	**Course outcomes**

• Acquire the ability to deal with architectural details and translate them in reality. • Knowledge of the properties of construction materials engineering and physics and its applications • Understand the principles for dealing with modern mechanical systems (elevators-conveyor belts, etc ...) • Understand and grasp and integration of the design process with the structural work and building materials • The acquisition of practical skills through visits and follow-up the construction of various projects. The production of a number of paintings for various graphics executive.	

Furniture Design		Course name		.41
Concentration requirement		Course type		
3	Credit hours	ARC5344	Course no	

The course covers the below topics: • study modern trends in interior design • consists of two parts, the first part includes the study of the spatial configuration (internal) of the buildings, and the addition technical, environmental and psychological activities and the study of the elements of decor in the domestic blank, to serve the function of the vacuum with high efficiency • The second part, including the appropriate furniture for this vacuum design, with addressing the design standards for furniture and characteristics of the raw materials used • The focus of this course on interior design for public buildings.	**Course discription**
The course seeks to: • Identify the different types of finishes and characteristics, and how to use them in the internal voids • Knowledge of the types of furniture, raw materials and their properties, as well as design standards • Grasp the details of the walls, floors and other construction elements and specifications for materials used for furniture types. The ability to show off designs for furniture and painted by a specialist.	**Course aims**
The student after his study of this course is able to: • Gain knowledge and awareness of job relations between the different components of public buildings • Gain knowledge of materials used in finishing both floors or walls and ceilings and other building elements, as well as those related to furniture • Furniture design, through a lack of raw materials and design standards for furniture • Show the different designs in ways that are simple and concrete • Acquire the skill of communicating with users and managers of public buildings, Interior Design materials suppliers	**Course outcomes**

• Acquire specialized knowledge of Interior design methodology beginning with the design and analysis of understanding the problem and offering solutions and developed and expressed in the show • Analytical skills through case studies examined by students • Applied skills through discussions for each project by committees from within and outside the Department • Mental skills through organized thinking building on the sequence steps in thinking to reach conclusions and judgements logically • Produce a project in the field of Interior Design.	

Decoration & Palestinian Islamic Arts		**Course name**		**.42**
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5345**	**Course no**	

This course covers the topics • The principles of General and special Islamic decoration and its evolution through the ages • Various materials and methods to implement these ornaments and various styles of plastic units • Analytical study of initial elements for possible use in a contemporary way, away from the traditional movable in wizards with application of decorative elements through the use of multiple materials, glass, ceramics, marble, wood and practice of marketing the idea through the final presentation of the project	**Course discription**
This course seeks to • Understand methods of composition and the arts in General • Focus on techniques using motifs in cosmetic work so as to give the student the ability to choose the appropriate technical units • Choose materials that serve the goals of basic design with material impact on quality check • Learn ways to painting on glass and ceramic accents, wood engraving and multiple motifs worked on marble.	**Course aims**
The student after his study of this course are able to • Acquisition of cognitive skill concerning principles of illumination and its various components and its evolution through the ages • Acquire the skill of using different materials to implement these ornaments and various styles of plastic units • Proper selection of the type and application of modern style decoration suited to the spirit of modernity	**Course outcomes**

• Acquire the ability to deal with different materials to serve the architectural details and translate them into reality • Gain practical skill in the production of various decorative forms.				
Advanced Interior Design 1		**Course name**		.43
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5346**	**Course no**	
This course covers the topics: Key issues for interior design: interior design concept, profession, internal spaces design elements for decorating the interior spaces, past and current work of architects and designers, lighting and color theory, color schemes and their interaction, and choose the color for interior design. This course includes an assessment of the internal vacuum is familiar to students and an analysis of its internal spaces, identify problems and proposed solutions				**Course discription**
This course seeks to • Identify internal voids and design fundamentals related considerations in terms of color and lighting, ventilation and building materials. Etc • Training on designing furniture and meet their own standards • Identify the output mechanisms and showing your interior design projects • Identify the decorative elements in architectural spaces and foundations of applied • Solving optimal internal voids.				**Course aims**
The student after his study of this course is able to • Knowledge of the bases and criteria for the design of interior spaces, movement and the choice of materials and colors, etc • Acquire the skill of mind through organized thinking to reach solutions to the design problem • Analytical skills by studying examples and case studies • Produce a project in the field of Interior Design				**Course outcomes**

Advanced Interior Design 2		**Course name**		.44
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5347**	**Course no**	
This course covers the topics: • Study modern trends in interior design and spatial configuration (inner) study of buildings and its technical, environmental and psychological activities and skills using structural elements and decoration in the interior space to serve a function space very efficiently, and furniture design is appropriate for this vacuum. • Focus on interior design for public buildings.				**Course discription**
This course seeks to • Identify the different types of finishes and characteristics, and how to use it in interior spaces • Examine different factors affecting internal voids walagtmaaihwalaktsadih environmental • Developing student abilities to grasp details of walls and floors and other construction components and specifications of the materials used • Develop the capacity of students to show the interior designs.				**Course aims**
The student after his study of this course is able to • Acquiring knowledge and awareness of job relations between the different components of public buildings. • Knowledge of the materials used in finishing both floors or walls and ceilings and other building elements. • Design of internal spaces for public buildings. • Show the different designs in ways that are simple and concrete. • Acquire the skill of communicating with users and managers of public buildings, Interior Design materials suppliers. • Specialized knowledge of Interior design methodology beginning with the design and analysis of understanding the problem and offering solutions and developed and expressed in the show. • Analytical skills through case studies examined by students. • Applied skills through discussions for each project by committees from within and outside the Department. • Mental skills through organized thinking building on the sequence steps in thinking to reach conclusions and judgements logically. • Produce a project in the field of Interior Design.				**Course outcomes**

Advanced Interior Design 3		Course name		.45
Concentration requirement		Course type		
3	Credit hours	ARC5348	Course no	
This course covers the topics: • Advanced stage in interior design, where cares about aspects of lighting design, color and ventilation. • Consists of three parts, each part is in the study of theoretical aspects and design criteria and requirements followed by practical application through small project, in which interior design study for the application of theoretical aspects. • Advanced study for calculating light and status as well as its relationship with the use of the space to be designed. • Study the characteristics of raw materials and their relationship to the color and its impact on use. • Take account of sustainable design in interior design in terms of passive ventilation and air routes investigation mechanism to empty in proportion to the space.				Course discription
This course seeks to: • Increase as q interior design through beautiful design and comfortable space and link for example in optical design and precise voice. • Good understanding of the basic effects of theory and practice, such as color, lighting and ventilation in design of indoor space. • Build and improve interior design skills.				Course aims
The student after his study of this course is able to: • Advanced skill acquisition in interior design. • Perform calculations calculations for internal vacuum components. • Gain practical skill in designing vacuum procedure so as to improve design performance. • Advanced cognitive skill acquisition, internal vacuum design factors as well as the theoretical concept of design. • Produce three small projects as Course discription. • Analytical skills through applied projects during the ceremony.				Course outcomes
Urban Planning Theories		Course name		.46
Concentration requirement		Course type		
3	Credit hours	ARC5349	Course no	
This course covers the topics:				Course

• Development of altkhtitaber history and especially after World War II, with reference to concepts (such as the concept of urban spaces, optical analysis techniques and understand the character and the mental image) and different layout styles and finally of planning. • Study of the factors that contributed to the evolution of evolution that has led to the need for planning and levels, as well as studying trends in philosophical altkhtitotatherha on current urban planning and development, and its influential factors of the economic and social aspect, physicist.	**discription**
This course seeks to: • Identify the most important theoretical foundations of urban planning, and features and distinctive features. • Definition of the levels of planning and the nature of charts on each level, with the types of planning on the part of the identity and role of planning at every level • Understand the theoretical planning strategies in solving the problems of the city, such as alamranotenzim growth conurbations forming the city's urban environment and its revival.	**Course aims**
The student after his study of this course is able to: • Understand the meanings underlying nature of urban planning. • Realization of theoretical trends and their impact on the current layout. • Fhmalastratigiat acquisition planning and through understanding the difficult issues facing dealwith a almkhettinmthl random planning. • Urban planning projects on a professional level. • Awareness of the role and nature of the scheme and the factors influencing it.	**Course outcomes**

Urban Planning in Palestine		**Course name**		**.47**
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5350**	**Course no**	

This course covers the topics: • Study and analysis of change and evolve in systems, laws and the nature of the planning in Palestine through various stages. • Study of the most important features of previous epochs planning systems for land planning and urban planning (Ottoman, British mandate, the Egyptian and the Jordanian covenants) wathrhzeh systems and profiles in shaping the nature and layout attributes in Palestine. • Examine the reality of Palestinian planning and management institutions at present, focusing on the role, responsibility and powers of those institutions,	**Course discription**

• Describe the types of planning in Palestine to the layout, with todaihasbabh by focusing on housing.	
This course seeks to: • Linking academic education with practical work, and cooperating with relevant institutions to qualify students for the labour market in the future in the field of planning. • Providing opportunities for students to build their capacity and strengthen their expertise by knowing the role and responsibility of the institutions involved in local government. • Knowledge of the most important laws of alaradivi uses the Ottoman and British mandate-era town planning and applications of those laws in an era of national authority. • Perceiving impediments to proper planning and a thorough understanding of the motivations and treatment planning.	**Course aims**
The student after his study of this course are able to: • Acquire the necessary information to the knowledge base by working the applied in practical life. • Gain a detailed picture of the powers and the role of institutions in planning and decision-making mechanism and formulate planning policies. • Acquire knowledge about some important terms such as: limiting construction, Ricochet, coupon detachment and non-secreting etc. • Understanding the nature of planning in Palestine.	**Course outcomes**

Transport Planning & Infrastructure		**Course name**		**.48**
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5351**	**Course no**	

This course covers the topics: • Describe the characteristics, types and classification of urban roads in urban areas. • Study athralmwaslat with urban land uses and installation. • Study analytical tools and planning criteria for designing transportation systems and urban transport. • View infrastructure components, and describe the coordination between the different infrastructures, with contents of course suggestions for infrastructure development.	**Course discription**
This course seeks to:	**Course aims**

• Identify the concept, types and content of urban transportation planning • Learn strategies for public transport planning, traffic, road, transport quality and volume of traffic, intersections, design methods include roads in urban areas, details of physical methods, criteria for distribution of intersections, parking design and coordinating voids pedestrian movement	
The student after his study of this course is able to: • Gain expertise his cognitive capacity to understand the importance of transportation planning in urban planning. • Theoretical and practical knowledge to solve problems of urban transportation planning strategies: like a bypass road to reduce traffic congestion. • Planning skills for the design of parking, traffic volume handled and solve the problems of congestion, coordinate routes and inclination to move in certain directions, and how to manage road and traffic control mechanism at intersections. • Cognitive capacity to understand the relationship between transportation planning and infrastructure, helping to assess recent mode, with the availability of the infrastructure elements, location and distribution of public service media, view the current infrastructure assets, coordination between the various infrastructure proposals for infrastructure development.	**Course outcomes**

Legal Aspects of urban Planning & managment		**Course name**		**.49**
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5352**	**Course no**	

This course covers the topics: • The nature of planning in Palestine by looking at laws concerning planning, with description of points affecting the planning of every law, and your humiliation by using history as an analytical tool. • Addresses the laws of Ottoman, British mandate, Jordan in the West Bank and Gaza Strip and the Egyptian in governance finally under the Palestinian national authority. • Definition of the role and responsibilities of the bodies and institutions working in the field of urban planning and development and finally view the experiences of neighbouring countries.	**Course discription**
This course seeks to: • Highlighting the legislative tools and stages of development of laws relating to the planning of cities and regions, as well as preparing outlines and discharge and use of land. • Focus on the importance of the role of local government bodies in the	**Course aims**

preparation of development plans in neighboring countries and the possibility of reflection on Palestine. • Give accurate information about the most important laws concerning planning in Palestine, highlighting the role of institutions affected by those laws. • Give the students the basic concepts of laws affecting, with definition of the levels of planning in Palestine and legal dimensions. • Identify students with effective institutions at all levels of charting. • Clarify the modern methods of local government administration. • Shows the nature of planning in Palestine, to clarify problems and environment implications of weak laws and Executive machine not to develop laws on urbanism.	
The student after his study of this course are able to: • Awareness of the structure of regulatory authorities over the decades. • Thorough knowledge of Palestinian laws and legislation relating to planning. • Familiarity with buildings system and regulation of the Palestinian territories. • Acquisition of knowledge of the general framework of national and regional planning authorities responsible for charting. • Know the regulations and laws relating to altkhtitihali models each level.	**Course outcomes**

Housing & Sustainable Design		**Course name**		.50
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5354**	**Course no**	

This course covers the topics: • Define the neighborhood Essentials planned and designed walanmatalaskanet and also deals with the study of mechanisms of financing and management of housing projects, in addition to the study of global and local housing projects. • Describe the relationship of housing, urban design, urban design, housing design factors and objectives, analyzing housing programmes and housing standards, with residential anasralmgaorh analysis to explain the types of housing in Palestine. • Website analysis and blocks of housing, the theoretical foundations in the distribution of blocks on the site, coordinate the movement paths along with the design of the entrances and exits to the site, taking into account the optical configuration and element of suspense in the coordination of urban spaces for the site. • The concept of sustainability, as well as applications of sustainability criteria on neighbouring residential dwelling unit, with in the description to the mechanism for implementing applications as well as their disadvantages.	**Course discription**

This course seeks to: • Intrduce basic principles about housing as a means of effective development. • Identify problems and physical aspects of design housing requirements, alaktsadihwalagtmaaih. • Students design strategies to resolve problems related to housing projects planning and residential areas. • Understand the interrelationship among neighbouring tenement design on the one hand, and on the other hand, proper planning • Almaanialastdamh understanding and sustainability criteria and mechanism of its applications to design housing and neighborhood.	**Course aims**
The student after his study of this course are able to: • Cognitive skill acquisition relating to sustainable design for housing. • Knowledge of design pillars to coordinate site, order blocks of housing unit, design of urban spaces on site coordination and housing design strategies, such as housing and economic class. • Design skills by giving an idea of local and global housing projects, in terms of major foundations planned properly in line with the requirements of the urban environment and community groups.	**Course outcomes**

Advanced Urban Planning Studio		**Course name**		.51
Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5354**	**Course no**	

This course covers the topics: • Practice and the practical application of the concepts, skills, ways and methods of urban planning to urban and regional levels, and through realistic planning projects selected from the environment. • Practice and practical application of projects and layouts, with a focus on urban planning projects. • Linking different planning theories, strategies and practical mechanism for concrete projects, • Plus alyusuf configuration elements of the urban environment in terms of physical planning, the social and the economic. • A brief study of the process of project planning process from the following areas: urban tsamimalfraghat, how to set up the rules and the law making process, taking into account regulatory schemes needed schema and planning institutions when dealing with outlines.	**Course discription**
This course seeks to: • Understanding the content of laws and to apply them in outlines.	**Course aims**

• Clarify the role and powers of the Department of planning institutions planning projects. • Knowledge of the advantages and constraints, the features and theories of urban planning. • Understand the meaning of physical level planning, social, and economic. • Knowledge of and types of chart types to include, for example, urban slums, reviving old neighborhoods and historic preservation. • Understanding of the most important policies of the Central and local level planning. • Learn the most important planning strategies for solving layout problems and excessive growth control mechanism on the outskirts of the urban environment.	
The student after his study of this course is able to: • Give the student a solid foundation for dealing with planning projects on the practical side, thus hone the skills of students in planning. • Realization of the most important strategies and planning laws. • Acquire a practical skill of project management planning. • Know the concept, constraints, policies, and requirements of urban planning branches • Knowledge of the role and impact of planned establishment plan and use the latter to meet their concerns.	**Course outcomes**

Methods of Fire Safety in Buildings		**Course name**		.52
Selective Concentration requirement		**Course type**		
3	**Credit hours**	**ARCH 5349**	**Course no**	

This course covers the topics: • Discuss matters relating to occupational safety and health. Dealing with hazardousmaterials. And prevention of accidents. Internal safety. Personal protective equipment. Firefighting equipment. Transport and storage. Disaster management. Local safety regulations. • Address the risks incurred by buildings as electrical fire hazards • Alamliltsamim application specific engineering buildings. Behavior of structures at high temperatures, fire and smoke systems. systems and escape. Sprinkler systems. The ventilation system. Storage, transportation and handling.	**Course discription**
This course seeks to: • Understanding the content of laws and to apply them in outlines. • Clarify the role and powers of the management planning institutions planning projects.	**Course aims**

• Knowledge of the advantages and constraints, the features and theories of urban planning. • Understand the meaning of physical level planning, social, and economic. • Knowledge of and types of chart types to include, for example, urban slums, reviving old neighborhoods and historic preservation. • Understanding of the most important policies of the Central and local level planning. • Learn the most important planning strategies for solving layout problems and excessive growth control mechanism on the outskirts of the urban environment.	
The student after his study of this course is able to: • Acquire a solid base to deal with planning projects on the practical side, thus hone the skills of students in planning. • Realization of the most important strategies and planning laws. • Acquire a practical skill of project management planning. • Knowledge of the concept, constraints, policies, and requirements of urban planning branches. • Knowledge of the role and impact of planned establishment plan and use the latter to meet their concerns.	**Course outcomes**

Advanced Architecture Design Studio		**Course name**		**53**
Selective Concentration requirement		**Course type**		
3	**Credit hours**	**ARC 5341**	**Course no**	

This course covers the topics: • Studio in advanced architectural design field to develop student skills and his ability to design through deepening his Queen on the design ideas in a short time and specific, optometric technician integrated projects addressed issues of design in contemporary architecture and the impact of modern technology on design methodology with dealing with advanced digital design to form interfaces and the cover of the building.	**Course discription**
This course seeks to • Understand modern technological methods in the design of buildings and their applications • Examine the issue in contemporary architecture by analyzing key trends in architectural thought in the latter part of the twentieth century • Integrated project design artistically address issues in contemporary architecture and the impact of modern technology on design methodology	**Course aims**
The student after his study of this course is able to:	**Course**

• Acquire the skill of dealing with modern technologies in architectural drawing and show programs • Mental skills through organized thinking building on the sequence steps in thinking to reach conclusions and develop alavkaralflsvih • Research skills through research conducted by students. • Teamwork skills. • The production project	**outcomes**

Regional Planning & Sustainable Environment		**Course name**		**54**
Selective Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5348**	**Course no**	

This course covers the topics: • Study comprehensive theory basics altkhtitalaklimi, content and properties and how to prepare some organizational and planning documents, such as General and comprehensive blueprint, land classification scheme, with a study of the procedural steps and modelling and quantitative methods used in the planning process, in the context of this course addresses basic concepts in environmental planning, environmental impact assessment and analysis, environmental pollution and how to control it. And domestic legislation the most important environmental laws aldolihlhamaih environment • Practical application of local and regional schemes evaluated khlaldrash effects and consequences of urban development walsnaaiwaktrah solving problems caused by misuse and use regional geographical area down to the balanced development and comprehensive course covers spatially parallel kind of cooperation with the concerned your giving institutions.	**Course discription**
This course seeks to: • Introduce students to the basic concepts of regional planning and spatial relations, geographical location, and its importance in solving the problems of the communities. • Identify certain regulatory actions such as land and real estate reserve screening process, then study how to plan some special areas within the city, such as downtown, industrial, archaeological areas, agricultural and recreational areas. • Learn about new developments and directions of development, through a comprehensive view of development plans as preserving the physical environment, natural through the optimization of resources, and the preservation of the natural environment, all components of water, soil and air, and to mutual influences between them and study alanasaralhet surrounding weghiralhet	**Course aims**

The student after his study of this course is able to: • Depth of knowledge in the surrounding environment. • The knowledge needed to provide a service to society, by discussing issues of environmental planning and regional realities in the study area, and identify problems afflicting urban areas to develop appropriate solutions. • Acquiring skills and defined techniques used in planning. • Stimulation of scientific research in the research on environmental planning, through almshahdatalmidanih, kaadhalbianatalmsharia, or see alaatmadaliastmarhalastbianazattalb. • Application of research tmdrasthbalmsharoa • Acquire skill of teamwork	**Course outcomes**

Buildings' Legislation		**Course name**		**55**
Selective Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5351**	**Course no**	

This course covers the topics: • Introduce students to the law, and what it is, and its historical evolution and its public and private sources of obligation notably tort (wrongful) and statement of personal responsibility which rests on self and money. • Regulatory authorities by law and construction regulations mnmkhtatat regulation, building license infractions, objections. Etc, which have been applied in Palestine since the early twentieth century and the Palestinian organization structures tightly system 1996, study and construction law applied in local municipalities and practice systems and requirements engineering maps to the engineers Union.	**Course discription**
This course seeks to: • Identify local building regulation laws in Palestine and its historical development. • Identify the powers of legislation and implementing provisions of offences and licensing, and select referential. • Good knowledge of the business and the maps in practice systems engineering engineers syndicate, plus the applicable construction regulatory act in municipalities mahalla, good knowledge of building and licensing violations and objections, examining the provisions of the buildings and the Palestinian Organization Act of 1996.	**Course aims**
The student after his study of this course is able to: • Understand general law and kinds and levels and properties, and good knowledge of applied buildings' construction systems in Palestine. • Knowledge of local building regulations and construction laws.	**Course outcomes**

• Understand the mechanism dealing laws and legislation process that needs alihaandaltaamel with charts and various bodies and the regulatory process sequence				
OPTICAL & DIGITAL IMAGING		**Course name**		**56**
Selective Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5354**	**Course no**	
This course covers the topics: • Define developments brought about development in fine art, photographic material and stylistic and technical aspects of the theory altsoirali alvnio aesthetic level headquarters harden here poses to the student during the course, the technical training (use professional cameras, including information about using different lenses and special effects offered by filters, filters and techniques to develop and print manual) and informed by another student with a general cultural and historical information marched briefly photography mnzaktshav altsoiro machine to this day. So this article deals with the different techniques of practical application for processing digital images of various types, used in graphic design and interior design				**Course discription**
This course seeks to • Learn new ways to develop their artistic visions and develop capacity owned by digital photography, image and start imagining security				**Course aims**
The student after his study of this course is able to: • Developing his skill on the first scenario where a photographer artist who could imagine in his mind the final form of the image, and then do a set of technical operations and consolidation of a number of images in an artistic way, using image processing software to configure a new image				**Course outcomes**
Special topics in design and interior design		**Course name**		**57**
Selective Concentration requirement		**Course type**		
3	**Credit hours**	**ARC5353**	**Course no**	
This course covers the topics • Principles of documentation and recording monuments and urban rehabilitation and maintenance of premises and adapted to modern requirements, the selection and use of rehabilitation materials, appropriate technology for rehabilitation, internal vacuum in old buildings and the functional and Visual and structural problems • Policies pursued by the institutions and bodies concerned in Palestine and				**Course discription**

neighboring countries for the protection of Antiquities and heritage, focusing on laws and legislation for the protection of Antiquities and heritage in these States, such as UNESCO, international museums, Global Foundation for protection of buildings, as well as those adopted in advanced countries.	