

# MSc. Courses

## Urban Design Specification

### Semester 1 :

#### **ARCH- U 601    Housing**

The aim of this course is to identify students with new theories in housing , plus the housing problems , and the proposed solutions.

#### **ARC-U 602    Landscape Design**

This course aims to :

- Focus on Landscape because it represents one of the specialized subjects within the purview of urban design.
- Identify the most important themes and literature concerning landscape architecture in order to take advantage of them in the field of urban landscape, to help the students in preparation their studies, research, and design concerning landscape architecture.
- Focus on sustainability and ecosystem and how to achieve it by working to induce students' interest research on this topic because of its importance in the present after the man realized negative results, which reached his environment through the negligence of landscape and its substantial role in the climate and environmental design.
- Creation of a cadre has a knowledgeable and knowing the importance and the role of landscape architecture in urban design.

#### **ARC-U 603 Analysis of Climatic Urban Environment**

This course is constrain on the following general items:

- The Importance of providing thermal comfort in outside spaces.
- The benefiting from the site characteristics in the development of the design program and design alternatives.
- Reach to urban designs that minimize the impact on climate change.

## **ARC-U 604      Urban Design Theory**

The course is an introduction to contemporary urban design and to the main theories and positions from the past five decades. Urban design integrates aspects from planning, architectural design, sociology, cultural studies, and urban history. A principal goal of the course is to tie a connection between theory and practice, and discusses of the impact of these theory in local urban design projects and Iraqi city developments.

## **ARC-U 605      Research Theory**

The course aim to introduce students to the characteristics of academic scientific research , and ways of finding information and analysis of previous literature down to solve the problem of the research, as well as to define the characteristics and specifications of the scientific writing and the completion of the master's thesis.

## **ARC-U 606      English Language Techniques**

The aim of this course is to develop researcher ability to understand and interpretive English texts and literature, at the same time to present their knowledge in a perfect way. This would be by taking many items like: Grammar Skills, Vocabulary Skills, Speaking Skills Listening Skills, Reading Skills, and Writing Skills.

## **Semester 2 :**

## **ARCH- U 607      Sustainable Urban Design**

The aim of this material is to identify students with urban sustainability , sustainable development, and sustainable urban design, with new theories in this field. Plus sustainable cities and eco systems

## **ARC-U 608      Urban Design Strategies**

The "Urban Design Strategy " - UDS puts a target to act as a guide for planners, designers and decision-makers to help improve urban design in a dynamic, ever-changing urban environment, and put the design within a process of design strategy and experiences significant pressure for redevelopment and land use change. In this context, the purpose of the UDS is to promote good design outcomes that contribute to a coherent and appealing urban environment and encourage continuity, growth and change.

The UDS also acknowledges that future developments will need to achieve better environmental outcomes. Good urban design should ensure an attractive and

interesting place.

The UDS recognizes that the need to achieve good design outcomes at an individual site level should be balanced with a greater focus on collectively improving the quality of urban design through the strategy of the designer to put to each urban projects and the techniques the designer put to create the urban shape.

## **ARC-U 609 Analysis of Urban Environment**

Studies of urban environment analysis address the multiple links between spatial structure, use patterns, social and cultural meaning.

Studies in this area develop models and morphologies of use, based on tools ranging from Graphic Information Systems to Space Syntax. Representing and modeling the spatial dimensions of behavior and use patterns become aspects of the formal description of built as well as virtual environments. This work may be closely linked with cultural and behavioral studies,

The main tool in the study will be space syntax method in studying city structure, Iraqi city centers will be examples in the analytic study.

## **ARC-U 610 Research Applications**

The course focuses on the application of all the vocabulary related to the theory of scientific research on selected samples of the master's thesis as well as architectural research published in local and international journals through the axes shown in the weekly schedule.

## **ARC-U 611 Statics Analysis**

Statistics is concerned with scientific methods for collecting, organizing, summarizing, presenting and analyzing data as well as deriving valid conclusions and making reasonable decisions on the basis of this analysis. Statistics is concerned with the systematic collection of numerical data and its interpretation.

## **ARC-U 612 The future vision of the city**

The course explores the development of a future planning vision for cities as an inevitable factor in their success and sustainability, and the different ways and means applied by cities to attract business and people.

It also deals with access to vision in different cities. Identify practical steps to establish a city development strategy that includes the start-up phase, scope of work, initial assessment and visibility, as well as identifying strengths, weaknesses, opportunities and risks to reach the appropriate strategy through community involvement of the community.

The importance of participation in decision-making. With the study and

**criticism of development plans with local and global theme in terms of preparation and its relationship to planning and urban design**

## **ARC-U 613 English Language Techniques**

**The aim of this course is to develop researcher ability to understand and interpretive English texts and literature, at the same time to present their knowledge in a perfect way. This would be by taking many items like: Grammar Skills, Vocabulary Skills, Speaking Skills Listening Skills, Reading Skills, and Writing Skills.**