

# MSc. Courses

## Architectural Design Specification

### Semester 1 :

#### **ARC-A 601 : Design Strategies**

This course aim to introduce students to the most important curriculum and contemporary Strategies that target the production of texts architectural relevant attributes of creative and communicative through the system and investigate the survey about the most important of these Strategies adopted by the international architects and discuss the formation formats at both the formal and the semantic of these texts with a comparison accredited concepts systems by architect and other fields such as literature, poetry and art that the methods of reading of cash in these fields are Peerha and clarity of the nature of the interrelationships between network elements and semantic formalism alike.

#### **ARC-A 602 : Building System Techniques**

The course aim generally to identify the relationship between building as an architecture and building as a construction. Specifically on many items :Technology: Technology definitions,. Technology as a utilitarian need, Technology as a Phenomenon. The course also aim to identify: the impact of technological change on building structure, Systems of Building, Technology systems and contemporary architectural products.

#### **ARC-A 603 : Architectural Theory**

The aim of this course is to introduce students to the genesis of theories and assets also to keep pace with the emergence of contemporary intellectual theories and their application. As well as the course aims to build a knowledge base for the development of the history of architecture intellectually, and to form philosophical knowledge base from which the student can connect to the mechanics of the intellectual and philosophical concepts.

## **ARC-A 604 : Systems and Architecture**

This course aims to study and understand the importance of Systems in general and their characteristics and the extent of their impact in the construction of architectural work and outcome consistent humanitarian needs, spiritual and symbolic as well as for pure architecture systems that make up the physical construction. vocabulary covers basic definitions disparate systems and how to identify them in the theoretical and practical fields of architecture that requires an understanding of some basic vocabulary for systems such as context and content, language, values and moral organization, structure, and its role in our understanding of the architecture. Depending on this are discussed definition of the theory and the theory of general systems that give a systematic concept urban scenarios that make realizing the city systems and informatics, language and symbols and signal and traditions influential in the formation of tangles in growth and a sense of the city and the place is what leads to the result of understanding of architecture such as the composition and realistically reflects the consistent and different systems. students are responsible preparing the subject of a research reflects the ability to identify relevant in architecture systems and offers a discussion based on the participation of the rest of the students which will expand the approved knowledge of important aspects and essential in understanding the architecture systems and systems, retaining the same footprint and applications through an understanding of the theory of general systems and theories are supported by others.

## **ARC 605-A : Research Theory**

This course aim to Introduce students to the following subjects: The most important scientific research vocabularies, the public foundations of scientific research, the most important philosophical propositions public vocabulary and its currents, and the general framework of Structural Research majoring in Architecture in general.

## **ARC 606 -A : 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 :**

### **ARC-A 607 : Climatic Environmental design**

- **Provide Human Comfort, including thermal comfort.**
- **The impact of sustainable development in architecture.**
- **Identify new technologies in the building's design and provide a comfortable indoor environment.**

### **ARC-A 608 : Theory of Architecture**

- **Trend towards new mechanisms helps student to multiple types of thinking to change according to the studied case.**
- **Exposure to the variables that deal with architectural theories. To expand the ability of the student to research in the creation of theoretical models capabilities. By increasing the knowledge(theoretical & practical) and intellectual principle.**
- **The ability to analyze architectural projects according to architectural movements. And indicate the positive and negative effects in the community.**
- **Relying on the nature of the information derived from previous studies and evaluation by recognizing the interest earned in each subject.**
- **Verification of interesting topic which is a detailed search is moving in a range.**
- **Increasing the knowledge to the student in the theoretical and intellectual principle associated with the system of applied research aspects related to society.**

### **ARC-A 609 : Research Applications**

. **The course aim to learn student how to applied scientific research constraints and procedure on an a specific topic which students choose. That contain :research methodology, research problem, literature review sampling, measurements, etc.**

### **ARC-A 610 : Islamic Architecture**

**The course aims to develop and expand the participant's knowledge base of the Islamic ideology with focus on Islamic architecture. Enhancing and emphasizing the students' critique, analytic and comparative approach. The course outline consists of three parts: First: Introducing the Islamic ideology. The formation of early Islamic ideology. Modern and contemporary Islamic ideology. Second: delving into the**

Islamic architecture study, Islamic arch: Concepts and implementation. Comparative study of the variety of civilizations and how their ideologies effected their architectural achievements. Study example: Aga Khan, how Islamic intellectual trend effects architecture. Third: discussing the student reports.

## **ARC A- 611 : Elective Course (1) Statistics Anylises**

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 A- 612 : Elective Course (2)**

And these Include:

### **Advanced Architectural Design Strategies:**

The objective of the advanced architectural design strategies is to introduce students to the most important contemporary methods and strategies aimed at producing architectural texts with creative features and continuity through a system of survey and research on the most important strategies adopted by international architects and discussing formulations at the formal and semantic levels of these texts. By the designer of the fields of other fields such as literature, poetry and art. The methods of critical reading in these fields are characterized by the ease and clarity of the nature of the interrelationships between the elements of the formal network and the both.

### **Philosophy of Architecture Ethics:**

- Increasing the student's knowledge of the theoretical principles of thinking about moral values and their sources through the connection of this subject to several aspects of methodology and analysis in light of the data and elements of thought and reality.
- Acquire the student intellectual skill in the analysis and composition according to a particular moral doctrine. By understanding the extent to which moral doctrines influence the formulation of formal structures and architectural formations.
- Revealing the role of moral action in the structure of Arab Islamic architecture and deconstruction, and its role in shaping the architecture in general.
- Building an architectural moral approach and adopting it as a destination for the generation of architects and employing it to create an intellectual basis based on the design readings to achieve the architecture with ethical function.

### **Human and the formation of the urban environment :**

The course deals with the human and the physical environment, the human dimension to the drafting of the architectural vacuum, the concepts and foundations of formation and architectural formation and their impact on the

**functional and cultural aspects. It also deals with the relationship between the foundations of formation and the aesthetics of architecture and architecture through a comprehensive vision of architecture and humanities. Sociology, literature, and extrapolation of the human dimension in architectural models of local and international reality.**

## **ARC A- 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.**