

## MASTER OF ARCHITECTURE PROGRAMME

### PROGRAMME DETAILS

#### (a) List of Courses

COMPULSORY COURSES		Credit Hours
AR-601:	Advanced Architectural Design-I	03
AR-602:	Advanced Architectural Design-II	03
AR-603:	Studies in Architectural Research	03
AR-604:	Architectural Theory	03
<b>ELECTIVE COURSES</b>		
AR-605:	Architectural Design Project	06
AR-606:	Aesthetics in Architecture	03
AR-607:	Theory and Applications of Arts in Architecture	03
AR-608:	Green Architecture: Concepts and Applications	03
AR-609:	Regulatory Considerations in Architectural Applications	03
AR-610:	Interdisciplinary Issues in Architectural Applications	03
AR-635:	Case Studies in Architectural Conservation and Restoration in Developing Countries	03
AR-636:	Advanced Computer Applications in Architecture	03
AR-637:	Architecture of Housing	03
AR-638:	Advanced Landscape Architecture	03
AR-639:	Psychological Applications in Architectural Design	03

#### (b) Detailed Contents of Courses for Master of Architecture Programme

##### COMPULSORY COURSES

##### **AR-601: Advanced Architectural Design-I**

This is a studio course. In a directed environment, the students are given an exposure to advanced design methodology. The studio shall encourage the students to gradually evolve individual expression around the stated design brief. A capacity of critically examining the existing design approaches in the various contexts shall be developed. Ability to build up appropriate knowledge base for application into architectural design shall be an integral dimension of the studio process. The students will be encouraged to question the validity of existing trends in design and development with an objective to develop alternatives for the same. An enhanced understanding about the pragmatic factors – such as regulatory, financial and decision making parameters of design – shall also be created. Range of assignments may cover – but not limited to – intervention strategies in natural and eco-sensitive environments, corporate architecture, facilities architecture, psychological and comfort dimensions in architecture.

### **AR-602: Advanced Architectural Design-II**

A pre-requisite for this studio course is AR-601: Advanced Architectural Design-I. This course shall extend the capacity building process that has been initiated in AR-601. The abilities of the students shall be built with respect to objective assessment of design process and outputs. Appraisal of designs, briefs with an ability to visualize the anticipated outputs shall be an important ingredient in this respect. Interpretation of styles on the basis of available examples, basic competence to evolve theoretical connotations, participation in philosophical discourses and creative descriptions in the form of architectural texts and conceptual briefs shall constitute the usual premise of studio work. Important design case examples from local and global perspective shall also be deliberated in the studio environment under guidance of faculty.

### **AR-603: Studies in Architectural Research**

Purpose of this course is to build up the capacity of students in the field of research and its applications. Research methodology in social and applied sciences; ingredients of architectural research; framework of research in emerging fields in architecture; research in architectural communication; scientific writing; bibliographical studies; stylistic studies in architecture; creativity in architectural research process and evaluation research in architectural studies are the topics that will be covered in the course.

### **AR-604: Architectural Theory**

This course will investigate the role that ideas play in the conception, making and interpretation of various elements in the built environment. As a basis for this inquiry, the course will explore significant architectural and urban theories, design strategies, and architectural projects developed primarily from the beginning of the 20<sup>th</sup> century to the present. Lectures will cover a broad range of theoretical positions that have influenced the shaping of built environment. The course specifically aims to present the material in a manner that aids students in clarifying their own values and intentions as emerging designers. The course is based on the premise that theory and design practice inform one another in a mutually reinforcing way.

## **ELECTIVE COURSES**

### **AR-605: Architectural Design Project**

An architectural dissertation on a specified topic shall be undertaken by each student under the guidance of the faculty. The objectives of this course are to enhance the exploratory capacity of student and provide an opportunity to structure arguments around the chosen topic. The course shall be conducted in a studio format with periodic set of visual and graphical presentations.

### **AR-606: Aesthetics in Architecture**

Studies in aesthetical attributes are a significant domain in architecture. The course aims to develop abilities in the students to review, understand and comment upon the various theories

in aesthetics. Arts and science of architectural composition under the broad realm of aesthetics shall be studied with historic and contemporary perspectives. Instruction strategies shall comprise comparative studies, case examples and critical appraisal methods.

#### **AR-607: Theory and Applications of Arts in Architecture**

Review of ideas and applications in arts; survey of artistic work, debates and discourses; themes; professional interface; scale and profiles; case studies in art applications; dominant issues in the application of arts in architecture.

#### **AR-608: Green Architecture: Concepts and Applications**

This course will cover the impacts of building and traditional construction on environment; general principles of green architecture and sustainability; energy efficiency and conservation; day lighting and natural ventilation; environmentally smart materials; occupant health and productivity; deconstruction: life cycle costing and recycling; economics of sustainability; LEED rating system and accreditation; LEED Pakistan; understanding what is important (traditions/culture/attitude) and that the design process is extremely complex and sophisticated.

#### **AR-609: Regulatory Considerations in Architectural Applications**

Concepts, theory and practice of regulatory framework; prescriptive regulations; performance based regulations; relationship of regulatory framework with resulting built environment; contemporary issues in regulatory aspects of architectural practice.

#### **AR-610: Interdisciplinary Issues in Architectural Applications**

Contemporary architectural applications are impacted by several interdisciplinary issues pertaining to many other disciplines in social and applied sciences. Interface of architectural applications with engineering, management, business studies, media and communications. The course will be a combination of lectures and seminar based inputs.

#### **AR-635: Case Studies in Architectural Conservation and Restoration in Developing Countries**

Concepts and methodologies in architectural conservation and restoration; international practices; restoration of historic architecture in Sanaa and Shibam in Yemen; restoration and re-development work in Mostar, Tuzla, Sarajevo and Bana Luca in Bosnia Hercegovina; restoration of historic architecture in Istanbul, Cappadocia, Edirne, Konya, Efes, Antalya and other locations in Turkey; restoration practices in Bam and other locations in Iran; restoration and conservation applications in Nepal and Sri Lanka.

### **AR-636: Advanced Computer Applications in Architecture**

The course introduces and discusses current developments in architectural discourse, design theory, digital design models and technique and their relations to design (the search for new forms and presentation techniques). The theoretical influence of architectural concepts is presented through historical references in digital designs, such as Frank Gehri, Peter Cook and Colin Fournier. Furthermore knowledge and understanding of the way that digital technologies support business and awareness of the new business models that are developing in response to these technologies.

### **AR-637: Architecture of Housing**

Advanced applications of architectural input in housing; emerging typologies of housing; socio-economic, physical, financial, managerial and cultural issues in housing; housing choices and availability relationships; evolving appropriate standards in housing; design, delivery and management of housing for large scale of populations; housing for emergency conditions; case studies.

### **AR-638: Advanced Landscape Architecture**

Principles and ingredients; typologies in landscapes; advanced approaches in landscape design; contextual factors in landscape design; interface with horticulture and agronomy; environmental considerations; landscape design considerations in water scarce conditions; landscape management; case studying examples from developing countries.

### **AR-639: Psychological Applications in Architectural Design**

Concepts and terminologies; psychological parameters in architectural design; implications of colours, dimensions, volumes and masses in architectural design; techniques in psycho-spatial analysis; case examples from existing buildings/elements of built environment; design approaches for remedy of existing buildings and new projects.