**Department of Architecture**

**School of Architecture and planning**

**University of Management and technology**

**Course Outline (on OBE)**

## UMT’s Vision

## ***Our Vision is... Learning***

It defines our existence, inspires all stakeholders associated with us, creates a powerful momentum inside, and responds to the challenges outside. It continues to evolve as present captures new realities and foresight to unfold new possibilities. All in an incessant attempt to help individuals and organizations discover their God-given potentials to achieve Ultimate Success actualizing the highest standards of efficiency, effectiveness, excellence, equity, trusteeship and sustainable development of global human society.

## UMT Mission

Our Mission is.... Leading

We aspire to become a learning institution and evolve as the LEADING COMMUNITY for the purpose of integrated development of the society by actualizing strategic partnership with stakeholders, harnessing leadership, generating useful knowledge, fostering enduring values, and projecting sustainable technologies and practices.

### Mission of the School

The mission of the School is to provide the best leadership in the fields of the built environment; particularly in the development, management and innovation in the fields of architecture, urban planning and related specializations and sub-specializations

### Mission of the Department

At the Department of Architecture our mission is to challenge the participants to develop their abilities in solving complex problems by thinking creatively & informed decision making as a core of their professional schooling. Offering them a diverse interdisciplinary and meticulous program of studies led by an adroit faculty in a comprehensive studios or class environment and preparing them for leadership roles in the field of Architecture, Construction, Landscape, Built Environment and community development.

### course outline

Course code: AR-321 Course title: Architecture Design Studio- IV

|  |  |  |
| --- | --- | --- |
| Program | B-Architecture | |
| Credit Hours | 0+8 | |
| Duration | Spring-2023 (16 weeks) | |
| Prerequisites |  | |
| Resource Person | Sec A: Ar. Ilyas Malik, Ayesha Malik  Ar. Farah Jamil, ALLAH Ditta | |
| Counseling Timing | As per Time Table |  |
| Contact |  | Email:  [ilyas.malik@umt.edu.pk](mailto:ilyas.malik@umt.edu.pk)  [ayesha.malik@umt.edu.pk](mailto:ayesha.malik@umt.edu.pk) |

**Chairman/Director signature………………………………….**

**Dean’s signature…………………………… Date…………………………………………**

**Program educational objectives (PEO’s)**

**PEO-1:**

Able to interpret and elaborate architectural knowledge, communication, graphical and computer skills

**PEO- 2:**

Able to develop building and architectural plans through design coordination selecting suitable materials and construction techniques.

**PEO-3:**

Able to propose appropriate solution to complex building issues and adapt recent developments in architecture focusing on research, creativity and innovation.

**PEO-4:**

Able to maximize ethics by keeping spirit of discipline and respecting the professional codes and society.

**Program Learning outcomes PLO’s)**

Graduates of the B-Architecture at UMT are expected to have acquired and developed the following set of knowledge, skills and personality traits (these are also referred to as graduate attributes).

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**PLO 1Architectural Knowledge:** An ability to illustrate, architectural fundamentals through verbal and graphical Techniques

**PLO 2Design Analysis and development:** An ability to identify literature and analyze architectural problems reaching substantiated conclusions to meet specified needs with appropriate societal and environmental consideration.

**PLO 3 Case study analysis:** An ability to analyze architectural issues in a methodical way including design, field surveys, interpretation of field data, and synthesis of information to derive valid conclusions.

**PLO 4 Digital Tool Usage:** An ability to create, select and apply appropriate techniques, resources, and modern architectural computer simulations, including prediction and modeling, to complex activities, with an understanding of the limitations.

**PLO 5 Environment and Sustainability:** An ability to propose sustainable solutions to environmental problems through architectural design thinking.

**PLO 6 Project Management:** An ability to demonstrate management skills and leadership qualities in individual and teamwork capacity.

**PLO 7 Design Coordination:** An ability to coordinate effectively across different sectors of construction industry. (Material suppliers, Electrical plumbing, HVAC and Civil works).

**PLO 8 Ethics and the society:** An ability to apply ethical principles and professional codes of the profession following the social norms to the best interest of the mankind.

**Course Learning outcomes (CLO’s)**

|  |  |  |  |
| --- | --- | --- | --- |
| **CLO CODE** | **CLO NAME** | **CLO** | **Domain** |
| **321.1** | **321.C1** | Show an understanding and awareness of architectural elements and compositions. | **Cognitive2** |
| **321.2** | **321.C2** | Examine the work of significant architects and use it as a basis for design exploration. | **Cognitive4** |
| **321.3** | **321.C3** | Attempts to make use of the various phases of the building delivery and design process, and of different approaches to ordering that process in a systematic manner. | **Psychomotor 2** |
| **321.4** | **321.C4** | Organizes built form ordering principles, mass/void relationships, scale and proportion, color, texture, contextual relationships, meaning/imagery, and building technology (awareness of structural organization, services networks, construction processes and materials) as his/her own design determinants. | **Psychomotor 4** |
| **321.5** | **321.C5** | Formulate the design solutions for the project of moderate scale and complexity. | **Psychomotor 6** |

**Mapping of CLO’s to Program’s Learning outcomes (PLO’S)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Semester** | **Course Code** | **Title** | **Course Learning outcomes** | **PLO 1Architectural Knowledge:** | **PLO 2Design Analysis and development:** | **PLO 3 Case study analysis:** | **PLO 4 Digital Tool Usage:** | **PLO 5 Environment and Sustainability:** | **PLO 6 Project Management:** | **PLO 7 Design Coordination:** | **PLO 8 Ethics and the society:** |
| **6TH SEMESTER** | **AR-321** | **Architecture design studio-I** | Show an understanding and awareness of architectural elements and compositions. | √ |  |  |  |  |  |  |  |
| Examine the work of significant architects and use it as a basis for design exploration. |  |  | √ |  |  |  |  |  |
| Attempts to make use of the various phases of the building delivery and design process, and of different approaches to ordering that process in a systematic manner. |  | √ |  |  |  |  |  |  |
| Organizes built form ordering principles, mass/void relationships, scale and proportion, color, texture, contextual relationships, meaning/imagery, and building technology (awareness of structural). |  |  |  |  |  |  | √ |  |
| Formulate the design solutions for the project of moderate scale and complexity. |  | √ |  |  |  |  |  |  |

**GRADING CRITERIA:**

**50% to both Projects**

**ARCHITECTURE DEPARTMENT**

**School of Architecture & Planning**

**University of Management & Technology Lahore**

**title:** Architecture Design Studio-

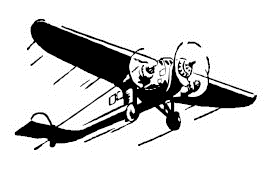
**Course code:** AR- 421

**CLASS:** Batch-06

**RESOURSE PERSONS:** Ar. Ayesha.M. Malik & Ar Ilyas Malik

Ar Farah Jamil & Ar ALLAH Ditta

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**PROJECT 1:**

**MUSEUM FOR AIRDROME**

**Duration: 6 Weeks**

**INTRODUCTION:**

Architecture has accompanied man and his needs throughout history and in turn shaped, inspired and built the very foundation of human geography since the advent of the modern design human have come far into the realm of technology and innovation new paradigms have emerged that are in synchronization with the needs of humans to celebrate achievements as designers users and builders.

The Lahore Flying Club was founded by a group of dedicated beneficence initially named as "Northern India Flying Club". This is the first flying club established in Indo-Pak Sub Continent in 1932. This run-way used to serve Lahore's first airport. Now it serves private flying clubs. The Walton airport started life as a private aerodrome in first decade of last century, by wealthy Hindu businessmen who wanted to take up new sport of flying. The Royal Air Force made superb concrete runway and taxiways in 1940 in anticipation of a Japanese invasion from the East. This airport served as main Lahore airport till the present one was made. PIA Super Constellations used to fly to Dacca, East Pakistan from here. In the area of Walton airport since 1930 Lahore Flying Club, since 1998 Hybrid Aviation & since 2002 Ultra-Light Club is established. However there has been noticed the absence of an airdrome museum that would add to boost this club facility. As the facility has been located at a prime location and the awareness of the planes is not very common in public. The training planes need lower ground for local operations and creating noise pollution so in the pursuit of relocating the flying school in an area with less population to avoid noise pollution crashes, damages and other injures, the initiative is commenced.

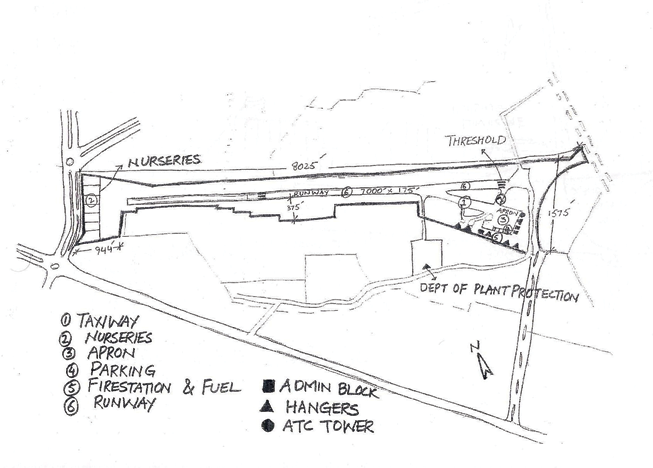
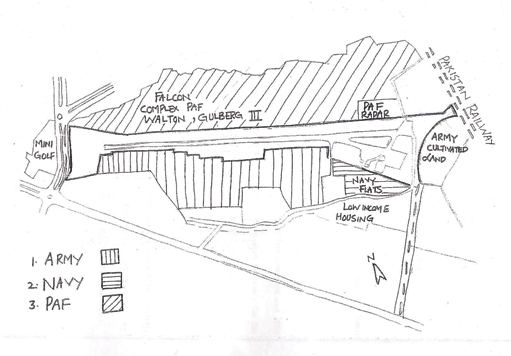
The Museum will play an ambitious transformation of the surrounding indoor and outdoor spaces to create the best possible experience for annual visitors. The Museum’s purpose is to stimulate awareness and interest among common public about aviation and flying training.

**FEASIBILITY OF PROJECT:** There is an army museum in Lahore yet it is lacking an aviation museum that works in best possible manner with training facility. This Museum being one of such facilities is desperately needed for Lahore. It serves to all groups of ages.

**SITE:**

The selected site is at Walton airport Lahore and the plant nurseries, an easy access zone for the people as located in the core of Lahore. The site is surrounded by settlements Askari 5 and Falcon complex (PAF). At the moment the land covering the entire Walton Aerodrome is more than 200 acres. Presently the site has only one entrance, which is connected through straight road from the ferozepur road abreast of Gulab Devi Hospital.





**RECOMMENDED CASE STUDIES:**

* PAF Museum (KARACHI)
* Pakistan Maritime Museum (Karsaz, KARACHI)
* Army museum (cant, Lahore)

**RECOMMENDED INTERNATIONAL CASE STUDIES**

1. Centre Georges Pompidou , France
2. National Army Museum, UK
3. Acropolis Museum, Greece
4. Solomon R. Guggenheim Museum , NYC, USA
5. Los Angeles County Museum of Art, California
6. The National WWII Museum, New Orleans
7. Van Gogh Museum, Netherlands (<http://www.archdaily.com/772991/van-gogh-museum-hans-van-heeswijk-architects>)
8. National Museum of the US Air Force
9. National Museum of Transportation, US
10. Shanghai Science and Technology Museum

**RECOMMENDED READINGS: (TO BE ADDED FOUR BY EACH RESOURCE PERSON)**

1. **Richard Meier museums:** Material type: book Book; Format: print ; Literary form: not fictionPublisher: New York,USA: Rizzoli, 2006
2. **Sculpure, glass, and American museums Lynn, Martha Drexler:** by Lynn, Martha Drexler.

Material type: book Book; Format: print ; Literary form: not fictionPublisher: Philadelphia,USA: University of Pennsylvania Press, 2005

1. **Building type basic for museums Rosenblatt, Arthur** by Rosenblatt, Arthur.

Material type: book BookPublisher: New York,USA: John Wiley & Sons, 2001

1. **Contemporary museums : architecture history collections** / Chris van Uffelenby Uffelen, Chris van.

Material type: book Book; Format: print; Literary form: not fictionPublisher: NP: Braun Publishing, 2011

1. **Museums**

Material type: book Book; Format: print; Literary form: not fictionPublisher: New York: Design media publishing, 2008

1. **Virtuoso enclave museum of modern art and hi-tech / Syed Abdul Mateen**by Abdul Mateen, Syed.

Material type: book Book; Format: print ; Literary form: not fictionPublisher: Lahore : UMT, Department of Architecture and Planning, 2017

1. [**Planning Successful Museum Building Projects**](http://site.ebrary.com/lib/umt/docDetail.action?docID=10353427&p00=museum+architecture)     
   Author: [Crimm, Walter L.](http://site.ebrary.com/lib/umt/search.action?p09=Crimm%2c+Walter+L.&f09=author&adv.x=1&p00=museum+architecture)   [Morris, Martha](http://site.ebrary.com/lib/umt/search.action?p09=Morris%2c+Martha&f09=author&adv.x=1&p00=museum+architecture)   [Wharton, Carole L.](http://site.ebrary.com/lib/umt/search.action?p09=Wharton%2c+Carole+L.&f09=author&adv.x=1&p00=museum+architecture)     
   Publisher: [AltaMira Press](http://site.ebrary.com/lib/umt/search.action?p09=AltaMira+Press&f09=publisher&adv.x=1&p00=museum+architecture)  
   Date Published: 12/2009
2. [**New Museums in China**](http://site.ebrary.com/lib/umt/docDetail.action?docID=11033936&p00=museum+architecture)     
   Author: [Jacobson, Clare](http://site.ebrary.com/lib/umt/search.action?p09=Jacobson%2c+Clare&f09=author&adv.x=1&p00=museum+architecture)     
   Publisher: [Princeton Architectural Press](http://site.ebrary.com/lib/umt/search.action?p09=Princeton+Architectural+Press&f09=publisher&adv.x=1&p00=museum+architecture)  
   Date Published: 07/2011
3. [**Nature's Museums : Victorian Science and the Architecture of Display**](http://site.ebrary.com/lib/umt/docDetail.action?docID=10453765&p00=museum+architecture)     
   Author: [Yanni, Carla](http://site.ebrary.com/lib/umt/search.action?p09=Yanni%2c+Carla&f09=author&adv.x=1&p00=museum+architecture)     
   Publisher: [Princeton Architectural Press](http://site.ebrary.com/lib/umt/search.action?p09=Princeton+Architectural+Press&f09=publisher&adv.x=1&p00=museum+architecture)  
   Date Published: 06/2005
4. [**New Museum Theory and Practice : An Introduction (1)**](http://site.ebrary.com/lib/umt/docDetail.action?docID=10243561&p00=museum+architecture)     
   Author: [Marstine, Janet](http://site.ebrary.com/lib/umt/search.action?p09=Marstine%2c+Janet&f09=author&adv.x=1&p00=museum+architecture)     
   Publisher: [Wiley-Blackwell](http://site.ebrary.com/lib/umt/search.action?p09=Wiley-Blackwell&f09=publisher&adv.x=1&p00=museum+architecture)  
   Date Published: 04/2008
5. [**South Pacific Museums : Experiments in Culture**](http://site.ebrary.com/lib/umt/docDetail.action?docID=10145570&p00=museum+architecture)     
   Author: [Healy, Chris](http://site.ebrary.com/lib/umt/search.action?p09=Healy%2c+Chris&f09=author&adv.x=1&p00=museum+architecture)   [Witcomb, Andrea](http://site.ebrary.com/lib/umt/search.action?p09=Witcomb%2c+Andrea&f09=author&adv.x=1&p00=museum+architecture)     
   Publisher: [Monash University ePress](http://site.ebrary.com/lib/umt/search.action?p09=Monash+University+ePress&f09=publisher&adv.x=1&p00=museum+architecture)  
   Date Published: 01/2006
6. [**Rodin Museum, Seoul**](http://site.ebrary.com/lib/umt/docDetail.action?docID=10488634&p00=museum+architecture)     
   Author: [Fox, Kohn Pedersen](http://site.ebrary.com/lib/umt/search.action?p09=Fox%2c+Kohn+Pedersen&f09=author&adv.x=1&p00=museum+architecture)   [Butler, Ruth](http://site.ebrary.com/lib/umt/search.action?p09=Butler%2c+Ruth&f09=author&adv.x=1&p00=museum+architecture)   [Kennon, Kevin](http://site.ebrary.com/lib/umt/search.action?p09=Kennon%2c+Kevin&f09=author&adv.x=1&p00=museum+architecture)     
   Publisher: [Princeton Architectural Press](http://site.ebrary.com/lib/umt/search.action?p09=Princeton+Architectural+Press&f09=publisher&adv.x=1&p00=museum+architecture)  
   Date Published: 01/2001
7. [**Art in Europe : Art in Europe : Museums and Masterworks (1)**](http://site.ebrary.com/lib/umt/docDetail.action?docID=10887967&p00=museum+architecture)     
   Author: [Charles, Victoria](http://site.ebrary.com/lib/umt/search.action?p09=Charles%2c+Victoria&f09=author&adv.x=1&p00=museum+architecture)     
   Publisher: [Parkstone International](http://site.ebrary.com/lib/umt/search.action?p09=Parkstone+International&f09=publisher&adv.x=1&p00=museum+architecture)  
   Date Published: 06/2014
8. [**The Museum Experience Revisited**](http://site.ebrary.com/lib/umt/docDetail.action?docID=10641972&p00=museum+architecture)     
   Author: [Falk, John H](http://site.ebrary.com/lib/umt/search.action?p09=Falk%2c+John+H&f09=author&adv.x=1&p00=museum+architecture)   [Dierking, Lynn D](http://site.ebrary.com/lib/umt/search.action?p09=Dierking%2c+Lynn+D&f09=author&adv.x=1&p00=museum+architecture)   [Semmel, Marsha](http://site.ebrary.com/lib/umt/search.action?p09=Semmel%2c+Marsha&f09=author&adv.x=1&p00=museum+architecture)     
   Publisher: [Routledge](http://site.ebrary.com/lib/umt/search.action?p09=Routledge&f09=publisher&adv.x=1&p00=museum+architecture)  
   Date Published: 12/2012
9. [**Heritage: Care-Preservation-Management : Towards the Museum of the Future : New European Perspectives (1)**](http://site.ebrary.com/lib/umt/docDetail.action?docID=10058288&p00=museum+architecture)     
   Author: [Miles, Roger](http://site.ebrary.com/lib/umt/search.action?p09=Miles%2c+Roger&f09=author&adv.x=1&p00=museum+architecture)   [Zavala, Lauro](http://site.ebrary.com/lib/umt/search.action?p09=Zavala%2c+Lauro&f09=author&adv.x=1&p00=museum+architecture)   [Zavala, Lauro](http://site.ebrary.com/lib/umt/search.action?p09=Zavala%2c+Lauro&f09=author&adv.x=1&p00=museum+architecture)     
   Publisher: [Routledge](http://site.ebrary.com/lib/umt/search.action?p09=Routledge&f09=publisher&adv.x=1&p00=museum+architecture)  
   Date Published: 02/1994
10. [**Critical Cultural Heritage Series : Intangible Heritage and the Museum : New Perspectives on Cultural Preservation**](http://site.ebrary.com/lib/umt/docDetail.action?docID=10589835&p00=museum+architecture)     
    Author: [Alivizatou, Marilena](http://site.ebrary.com/lib/umt/search.action?p09=Alivizatou%2c+Marilena&f09=author&adv.x=1&p00=museum+architecture)     
    Publisher: [Routledge](http://site.ebrary.com/lib/umt/search.action?p09=Routledge&f09=publisher&adv.x=1&p00=museum+architecture)  
    Date Published: 06/2016
11. Museums and their Visitors

Author: Eilean hooper-Greenhill

Publisher: Routledge

1. Identity and the Museum Visitor Experience

Author: John.H.Falk

**SPATIAL REQUIREMENT:**

* Site Plan
* Galleries / incorporate any vacant existing hangers as galleries, if possible. Spaces to be divided into permanent and temporary display galleries.
* Photos display area/gallery(open/closed space)
* Debate/ Seminar rooms
* Archive + Storage space
* Café (indoor +outdoor)
* Curator’s office
* Lobby/entrance/ticket counter
* Movie Room (Video or virtual room showing videos of different planes)
* Souvenir’s shop
* Research lab/workshops
* Administration unit
* Toilets
* Car park

**SUBMISSION REQUIREMENTS**

* Detailed Master Plan on 30”x40” Sheet (Details including car parking, zoning,
* Literature Review + Case Studies
* Site Analysis
* Concept
* 2x Elevations
* 2x Sections
* 3D views
* Study Model with Massing
* Detailed Plans, Sections & Elevations

**WORK SCHEDULE**

|  |  |  |
| --- | --- | --- |
| **Weeks** | **DATES** | **MILESTONE** |
| 1 |  | Introduction of the project and discussions on the outcome of the project and other details |
| 2 |  | Case studies ( Local & International) - 10% |
| 2 |  | Site Analysis + Zoning - 10% |
| 3 |  | Site Planning + Detail Planning + Sections |
| 4 |  | Initial JURY – 20% |
| 4 |  | Elevations Presentation |
| 5 |  | Discussion-3d’s, model |
| 6 |  | Submission |
| 6 |  | Final Jury – 60% (External 30 % & Internal 30%) |