**SCHOOL OF ARCHITECTURE AND PLANNING, UMT, LAHORE**

**DEPARTMENT OF ARCHITECTURE**

**SEMESTER: SPRING 2023: COURSE: AR603 Architectural Heritage**

**PROGRAM: MASTER OF ARCHITECTURE (M. ARCH)**

**UMT 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 unfolds 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 OF ARCHITECTURE AND PLANNING**

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 OF ARCHITECTURE**

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.

**Vision and Mission Statements of the M. Arch Program**

**of the Department of Architecture**

**Vision:**

The vision of the program is to add depth and breadth in the earlier knowledge gained by the students. The graduates are required to be equipped with the advanced knowledge of current and future needs at the national and international level in the field of built environment and aiming for excellence in learning, research and innovation.

**Mission:**

The mission is to impart quality education, ethical values, research abilities and leadership skills which will enable graduates to excel professionally in the field of Architecture and to establish a leading institution of architecture in production of graduates equipped with ability of leading in architecture with integrity and equity.

Course code: **AR603** Course title: **ARCHITECTURAL HERITAGE**

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| Program | **MASTER OF ARCHITECTURE** |
| Credit Hours | **3** |
| Duration | One Semester |
| Prerequisites | Nil |
| Resource Person | Prof. Dr. Muhammad Yusuf Awan |
| Counseling Timing  (Room# ) | TUESDAY 12.00-14.00  WEDNESDAY: 12.00-14.00 |
| Contact | Mobile: 0092 321 4113265  0092 300 8451908  Email: yusuf.awan@umt.edu.pk |

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

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

**Learning Objective:**

**AR-603:** **Architectural heritage**

**Objective**

The objective of this course is to give a deep understanding of the origins and sources of the cultural and architectural heritage spread in various parts of the World.

**CLO:1:** Understanding the importance and value of the heritage.

**CLO:2:** Enabling to explain the heritage with examples of the World History on comparative basis.

**CLO:3:** Learning to consider the geographical characteristics and archaeological evidences for searching the truth of the history and heritage.

**CLO:4:** Knowing to relate the past with present and leading towards future

**CLO:5:** Enhancing the knowledge of the current world and its contribution in the human

civilization.

**Syllabus:**

* Importance of understanding of the geographical location of the historical event. Searching the true history or historic truth and its authenticity through analysis of the location with reference to Geography, Archaeology, Geology, Documents, Influence of the rulers and historical narratives.
* Location of ancient civilizations and geographical characteristics, And Influences on architecture,
* An in-depth study of the main sources of Architectural Heritage in different parts of ancient world, Identification of sources; their influence, mode of influence ideas and technology, and religion.
* Understanding the heritage of the Subcontinent with reference to the Three River systems, Indus, Ganges and Brahmaputra
* An analytical study of Egyptian Civilization, Mesopotamian Civilization, and Indus Valley Civilization.
* The Persian Empire, The Mediterranean Civilizations of Greece and Italy, Mauryan, Hinduism, Buddhism and other Pre-Islamic cultures and civilizations and nature of contribution in architecture.
* Advent of Islam, World prior to the advent of Islam, Early historic developments in and around the Arabian Peninsula
* Spread of Islam outside the subcontinent, different dynasties, Khulfa-e Rashidun, Umayyad, Abbasid, Mamluk and Turks
* Arrival of Muslim in the Subcontinent. Role and influence of Islam, building typology and symbols in Islam; their adoption and adaptation in different countries including India and Pakistan,
* Conquest of Sind and Multan, Sultanate period, Mughals. Contribution of building types and styles.
* Post Mughal subcontinent. Contribution by the Sikhs in construction of buildings
* British Raj and its contribution in the built environment of the subcontinent, Building types and architectural styles, Modern and post-modern architecture of Europe and their influences

**Learning Methodology:**

* Lectures as provided in the Weekly Semester Activities
* Assignment related to the studied topics
* Latest Research papers
* Case studies on national and World Heritage
* Presentations on allocated topics
* Understanding the importance of Geography and Archaeology in Cultural Heritage
* Discussion with relevant experts

**Program Educational Objectives (PEOs)**

After graduation, the graduates of the program should be characterized by the following three features:

**PEO 1:**  Employing the acquired architecture knowledge and skills, the graduates will serve

the respective fields of architecture and built environment with professional

integrity and advanced knowledge.

**PEO 2:** The graduates will demonstrate career growth and continuous commitment to the

enhancement of technical and interpersonal skills with exploration of new knowledge.

**PEO 3:**  The graduates will uphold ethical values in their professional and societal activities.

**Program Learning Outcomes (PLOs) / Graduate Attributes**

Graduates of the Master’s program of architecture (M. Arch) 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)

**PLO 1 Architecture Knowledge:** An ability to apply knowledge of art, aesthetics, architectural skills, design, building technology, issues of conservation, urban design and environmental design and architectural specializations to the solution of   
complex architectural problems.

**PLO 2 Problem Analysis:** An ability to identify, formulate, search literature, and analyze   
complex architecture problems reaching substantiated conclusions using principles of art, design and social sciences.

**PLO 3 Investigation:** An ability to investigate complex architecture problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid   
conclusions.

**PLO 4 The Architect and Society:** An ability to apply reasoning informed by contextual   
knowledge to assess societal, health, safety, legal and cultural issues and the   
consequent responsibilities relevant to professional architectural practice and solution   
to complex architectural problems.

**PLO 5 Environment and Sustainability:** An ability to understand the impact of professional   
architectural solutions in societal and environmental contexts and demonstrate   
knowledge of and need for sustainable development.

**PLO 6 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities   
and norms of architectural practice.

**PLO 7 Communication:** An ability to communicate effectively, orally as well as in writing, on complex architectural activities with the professional community and with society at large, such as being able to comprehend and write effective reports and design   
documentation, make effective presentations, and give and receive clear instructions.

**PLO 8 Lifelong Learning:** Anability to recognize the importance of, and pursue lifelong learning in the broader context of innovation and global developments.

**Course Learning Outcomes (CLOs): (AR603: Architectural Heritage)**

**After successful completion of the course, the students will be able to:**

**CLO:1:** Understand the importance and value of the heritage.

**CLO:2:** Enable to explain the heritage with examples of the World History on comparative basis.

**CLO:3:** Learn to consider the geographical characteristics and archaeological evidences for

searching the truth of the history and heritage.

**CLO:4:** Know to relate the past with present and leading towards future

**CLO:5:** Enhance the knowledge of the current world and its contribution in the human

civilization.

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

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| **Semester** | **Course Code** | **Title** | **Course Learning outcomes** | **PLO 1** | **PLO 2** | **PLO 3** | **PLO 4** | **PLO 5** | **PLO 6** | **PLO 7** | **PLO 8** |
| **1st SEMESTER** | **AR-603** | **Architectural Heritage** | What is importance and value of Heritage? (CLO1) | **√** |  |  |  |  | **√** |  |  |
| Explain the heritage with examples of the World History on comparative basis? (CLO2) |  | **√** |  |  |  |  |  |  |
| How do you consider the geographical characteristics and archaeological evidences while searching the truth of the history and heritage?  (CLO3) |  |  | **√** |  |  |  | **√** |  |
| How do you relate the past with present and leading towards future (CLO4) |  |  |  | **√** |  |  |  | **√** |
| How much your knowledge of the current world is enhanced towards its contribution in the human civilization? (CLO5) |  |  |  |  | **√** |  |  | **√** |

**Grade Evaluation Criteria**

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| **Components** | **Marks** |
| Complex presentations/ progress reviews | 10 |
| Quizzes / Assignments | 15 |
| Mid Term Exam | 25 |
| Final Exam | 50 |
| Total | 100 |

**Recommended Books:**

1. History of Architecture by Sir Banister Fletcher
2. World Civilizations by Burns and Ralph
3. Archaeology in Pakistan by Dr. Ahmad Nabi Khan
4. All relevant books and internet website related to the course
5. Architecture in Pakistan by K.K. Mumtaz
6. Modernity & Tradition by K.K. Mumtaz

**Reference Books:**

1. Latest research on the Heritage
2. Books on regional heritage
3. Literature on traditional architecture
4. Approach to study the heritage

**Calendar of Course contents to be covered during semester**

**Course code: AR603 Course title: ARCHITECTURAL HERITAGE**

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| **Week** | **Course Contents** | **CLO** | **Reference Chapter(s)** |
| 1 | Introduction to the Architectural and Cultural Heritage,  Importance and Value of Heritage (CLO:1 &5)  Approach to the study, based on discussion and debate, cause and effect,  Adding more breadth and depth to already learnt knowledge.  Focus on answering “HOWs and WHYs” whereas at undergraduate level learning was largely focused on “WHATs, WHEREs and WHENs” | 1 & 5 | Archaeology in Pakistan by Dr. A. N. Khan,  Origin of Heritage |
| 2 | How to search true history and heritage? Importance of understanding Geography, Archaeology, Geology in analysis of the Heritage (CLO:3 &5)  **Introduction to the Term Paper** | 3 &5 | Books on Geography, Understanding of the Political map of Pakistan and CLASS NOTES |
| 3 | Comparison of Indus Valley Civilization with its contemporary civilizations of Egypt and Mesopotamia with reference to character of Civilization and Building Typologies. Why Pharaohs in Egypt? (CLO:2)  **Assignment #1: Preparation and Understanding a on geographical locations from the Atlantic Ocean to the Arabian Sea through the Mediterranean and Red Sea** | 2 | History of Architecture by Sir Banister Fletcher |
| 4 | Establishment of Persian Empire under the leadership of Cyrus the Great, Construction of the Wall of Gorgon, Palaces of Pasargadae and Persepolis. Why and how the Persian Empire was established? (CLO:2 & CLO: 3)  **Discussion/Review of the Term Paper** | 2 & 3 | Holy Scriptures and the Holy Quran,  Relevant Surahs such as Surah Al-Kahf (The Cave) |
| 5 | Character of Civilizations of Greece and Italy  Character and buildings (CLO:2)  **Presentation on Assignment 1** | 2 | History of Architecture by Sir Banister Fletcher |
| 6 | Development of Hinduism and Buddhism in the Subcontinent. Relationship between Religious function and architectural scheme of buildings  Importance of the Subcontinent and the Three Water Systems. Why invaders were attracted towards occupation of the subcontinent?  (CLO:2 & CLO:3)  **Assignment #2: Hinduism and Buddhism** | 2 & 3 | World Civilizations by Burns and Ralph |
| 7 | Early Historic Developments in and around the Arabian Peninsula prior to the advent of Islam:  Journey of Hadhrat Ibrahim a.s (Abraham) and spread to inter-regional communication  People of Aad and Samood, Architecture of Aad and Samood,  Queen Sheba and King Solomon, Sea trade between the two, Wind boats,  Persian Empire and Roman Empire, Change of the Trade Route of East to West trade and influence on the people of Arabian desert.  (CLO:2 & CLO:3)  **Presentation on Assignment 2** | 2& 3 | The Arabian History, Greek History and Holy Scriptures |
| 8 | MID TERM EXAMINATION  Introduction to the Advent of Islam and its effects  (CLO:4) | 1-5  4 | Class Notes  State of the world at the time of advent of Islam. Location and surroundings |
| 9 | Spread of Islam from the Arabian Peninsula to other parts of the World (CLO:4)  Muslim Capitals, Madina Al-Munawarah, Kufa, Damascus, Mashhad, Baghdad, Cairo, Tehran, Multan and Itanbul  (CLO:2, CLO3 & CLO:5)  **Review of the progress of Term Paper** | 2,3,5 | Class Notes  The Muslim Dynasties |

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| 10 | Muslim Dynasties:  The Holy Prophet’s time, Khulfa-e-Rashidun, The Umayyads, Abbasids, Fatimids, Safavids, Qaramites, Ottoman Turks  (CLO:2)  **ASSIGNMENT 3 ON Muslim Dynastical Capitals** | 2 | Class Notes  The Use and significance of Geometry in Muslim Architecture |
| 11 | Arrival of Islam in the Subcontinent,  The Subcontinent prior of Muslim,  Raja Dahir, Maharaja Jai Pal, Maharaja Prithvi Raj Chohan of Sindh, Punjab and Eastern and South Eastern Subcontinent.  (CLO:2, CLO:3 & CLO:4)  **Further Discussion on Assignment 3** | 2,3,4 | The subcontinent before Islam,  Class Notes |
| 12 | Contributions made by Muhammad bin Qasim, Mahmud of Ghazni, Shahab Uddin Ghori.  Establishment of Delhi Sultanate,  Art and Architecture of Sultanate Period,  Ghaznavids, Ghorids, Khaljis, Tughlaq, Syed, Lodhi, Surids  (CLO:2 & CLO:3)  **Presentation on Assignment 3** | 2&3 | Class Notes |
| 13 | The Mughal Empire and contribution in architecture and built environment  How it is different from the Sultanate Period.  (CLO:2, 3&4)  **ASSIGNMENT 4 on Mughal/ Sultanate Period Architecture** | 2,3,4 | Origin of Mughal Architecture,  Persian origin and influence |
| 14 | Contribution made by the Sikh and British  Construction, destruction and building typology introduced by the Sikh.  Arrival of British in the Punjab  CLO:1,2,3,4)  **Final review of the Term Paper** | 1,2,3,4 | Books on the Sikh Architecture  The Raj and Bhai Ram Singh |
| 15 | Colonial Architectural styles,  European classical style, Gothic style, Greco-Roman Style and Hybrid style  Modern and Post-modern architecture  (CLO:1,2,3 &4)  **Submission of Assignment 4 & Term Paper** | 1,2,3,4 | History of Architecture by Sir Banister fletcher,  Pioneers of Modern Architecture |
| 16 | FINAL EXAMINATION | 1,2,3,4,5 | Class Notes and Reading material mentioned above |

Prof. Dr. Muhammad Yusuf Awan