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

**DEPARTMENT OF ARCHITECTURE**

**PROGRAM: PhD In ARCHITECTURE (PhD. 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 PhD. Arch Program**

**of the Department of Architecture**

**Vision:**

The vision of the program is to lay the basis of research on comparative basis at international level. The graduates are equipped with the latest knowledge and enabled to jump into the blue ocean for finding new horizons of knowledge aiming for excellence in learning, ethical research and innovation.

**Mission:**

The mission is to lead at national and international level in solving complex problems with their profound global knowledge, ethical values, research abilities and leadership skills. Thus, it will enable graduates to excel professionally in the field of Architecture and to represent a leading institution of architecture in production of graduates equipped with integrity and equity.

**PROGRAM: PhD Architecture**

**Fall Semester 2021**

**Course Outline**

Course code: **AR807**

Course title: **Conservation of Architectural Heritage**

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| Program | **PhD Architecture** |
| Credit Hours | **3** |
| Duration | One Semester  |
| Prerequisites | Nil |
| Resource Person | Prof. Dr. Muhammad Yusuf Awan |
| Counseling Timing(Room# 4L-9 ) | TUESDAY 12.00-14.00WEDNESDAY: 12.00-14.00 |
| Contact | Mobile: 0092 321 4113265 0092 300 8451908Email: yusuf.awan@umt.edu.pk |
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**Chairman/Director signature………………………………….**

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

**Learning Objective:**

**AR-807: conservation of architectural heritage**

**Objectives**

The objective of this course is to make an in-depth study of the concept, theory and issues related to the conservation and preservation of Architectural Heritage.

**CLO:1:** To comprehend the heritage, Natural, Man-made, Built and Unbuilt heritage

**CLO:2:** TO identify the architectural heritage required for conservation and to clarify that why

conservation is needed?

**CLO:3:** To connect the past with present and future through appropriate conservation plans

**CLO:4:** To lay the basis of innovative PhD research

**CLO:5:** To prepare student for through understanding of PhD research through term paper and

class presentations.

**Syllabus:**

* Heritage, Built Heritage, Building and Architectural Heritage, Archaeological Sites and Historic Monuments,
* Analysis of Architectural Heritage of a Settlement with reference to Historic Periods, Building Typologies, Architectural Styles etc.
* Conservation, Terminologies of Conservation i.e. Preservation, Restoration and Reconstruction, Need for Conservation, Philosophy of Conservation. Conservation Terminologies and Degrees,
* Why conservation is needed? Aims and objectives of conservation, concept of conservation, need for conservation
* Identification of historic buildings and areas, Demarcation of Historic areas, Criteria for selection of buildings and areas for conservation, Architectural and historical values, Listing and Grading, Adaptive reuse, Consideration of original materials and construction techniques, Role of NGOs and Voluntary bodies, documentation, drawings and photogrammetry Practical Examples, Preparation of Conservation Plans.
* Legislation for Conservation of Cultural Heritage, Existing Legislation in Pakistan and its History. The Antiquities Act 1975, The Punjab Special Premises Preservation Ordinance 1985, Analysis. Required improvements/amendments.
* Law implementing Agency, its structure, organization etc. under the jurisdiction of the Law/Act. Department of Archaeology and Museums, Pakistan, its history, organization and analysis of its functions
* Criteria and Identification of Historic Buildings and Areas. Consideration of already Listed Buildings, Historic Literature, Survey of a Historic Settlement for identification of Historic Buildings.
* Why Selection and Criteria of Selection of Identified Historic Buildings for the Conservation
* Detailed Survey and documentation, Photography, Measurements, Video etc.
* Consideration of Architectural Value, Historical Value and Present Condition
* Conservation of Historic Areas, Demarcation and consideration of significant and non-significant buildings situated within the area.
* Causes of decay and deterioration
* Adaptive Re-Use/Recycling of the Historic Buildings
* Building Materials and Construction Techniques used in the Conservation works
* Examples of the Conservation Works in Pakistan such as PEPAC Conservation Plan of the old Walled City of Lahore
* Consideration of the role of various tiers of the Government
* International Charters for the Conservation of Cultural Heritage
* Role of Voluntary bodies, NGOs etc.

**Recommended Books and other related reading material:**

* **Conservation of Historical Buildings by Sir Bernard M. Fielden**
* **Archaeology in Pakistan by Dr. Ahmad Nabi Khan**
* **The Antiquities Act 1975, Islamic republic of Pakistan**
* **The Punjab Special Premises (Preservation) Ordinance, 1985, Government of the Punjab, Pakistan**
* **Conservation Plan for the Walled city of Lahore, Lahore Development Authority (LDA), Lahore**

**Program Educational Objectives (PEOs)**

Five years after graduating, 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.

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

enhancement of technical and interpersonal skills.

**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 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)

**PLO 1 Global Architecture Knowledge:** An ability to understand and apply the existing knowledge of art, aesthetics, architectural skills, design, building technology and related issues.

**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 Design/Development of Solutions:** An ability to design solutions for complex
architecture problems and design systems, components or processes that meet
specified needs with appropriate consideration for public needs and, cultural,
societal, and environmental considerations.

**PLO 4 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 5 Modern Tool Usage:** An ability to add new knowledge into the existing knowledge through creative abilities and appropriate research.

**PLO 6 The PhD Graduate 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 and social problems.

**PLO 7 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 8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities
and norms of professional practice to serve the public as a most responsible citizen.

**PLO 9 Individual and Team Work:** An ability to work effectively, as an individual or in a
team, on multifaceted and/or multidisciplinary settings.

**PLO 10 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 11 Time Management:** An ability to demonstrate management skills and apply
technical principles to one's own work as a member and/or leader in a team and to
timely manage projects in a multidisciplinary environment.

**PLO 12 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):**

**(AR807: Conservation of Architectural Heritage)**

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

**CLO:1:** To comprehend the heritage, Natural, Man-made, Built and Unbuilt heritage

**CLO:2:** TO identify the architectural heritage required for conservation and to clarify that why

conservation is needed?

**CLO:3:** To connect the past with present and future through appropriate conservation plans

**CLO:4:** To lay the basis of innovative PhD research

**CLO:5:** To prepare student for through understanding of PhD research through term paper and

class presentations.

**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** | **PLO 9** | **PLO 10** | **PLO 11** | **PLO 12** |
| **2ND SEMESTER** | **AR-807** | **Conservation of Architectural Heritage** | What have you learnt about Heritage, Natural, Man-made, Built and Unbuilt heritage? (CLO1) | **√** |  |  |  |  |  |  |  |  |  |  |  |
| How do you identify the architectural heritage needed for conservation? and to clarify that whyconservation is needed? (CLO2) |  | **√** |  | **√** |  |  |  |  |  |  |  |  |
| Explain how do you connect the past with present and future through appropriate conservation plans?(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) |  |  |  |  |  |  |  | **√** |  |  |  | **√** |

**Learning Methodology:**

Classroom lectures, literature studies, case studies problem solving exercises, presentations, term paper, field/site visit(s)

**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 and other related reading material:**

* **Conservation of Historical Buildings by Sir Bernard M. Fielden**
* **Archaeology in Pakistan by Dr. Ahmad Nabi Khan**
* **The Antiquities Act 1975, Islamic republic of Pakistan**
* **The Punjab Special Premises (Preservation) Ordinance, 1985, Government of the Punjab, Pakistan**
* **Conservation Plan for the Walled city of Lahore, Lahore Development Authority (LDA), Lahore**
* **Conservation works in the form of LUDTS, LUDP**
* **Isolated efforts for conservation such as “Conservation of the tomb of Shah Rukn-e-Alam, Multan**
* **Works of Agha Khan Foundation and LWCA, Lahore**

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

**Course code: AR807**

**Course title: CONSERVATION OF ARCHITECTURAL HERITAGE**

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|  **Week** |  **Course Contents**  | **Reference Chapter(s)** |
|  1 | Introduction and setting the scene of teaching and learning during the semester. Introduction to the Conservation of Architectural Heritage, objectives of the course and focus of the studiesApproach of study on true facts and figures and authenticity of the heritage needed conservation. (CLO:1) | Conservation of Historical Buildings by Sir Bernard M. Fielden |
|   2 | Heritage, Natural Heritage, Man-made Heritage, Built Heritage, Building and Architectural Heritage, Archaeological Sites and Historic Monuments,(CLO:1)**Introduction to the Term Paper**(CLO 4 & 5) | Conservation of Historical Buildings by Sir Bernard M. Fielden |
|  3 | Analysis of Architectural Heritage of a Settlement with reference to Historic Periods, Building Typologies, Architectural Styles etc.(CLO:2)**Assignment 1** | Archaeology in Pakistan by Dr. Ahmad Nabi Khan |
|  4 | Conservation, Terminologies of Conservation i.e. Preservation, Restoration and Reconstruction, Need for Conservation, Philosophy of Conservation. Conservation Terminologies and Degrees, (CLO:2)**Presentation on Assignment 1****(CLO 4 & 5)** | Conservation of Historical Buildings by Sir Bernard M. Fielden |
|  5 | Why conservation is needed? Aims and objectives of conservation, concept of conservation, need for conservation(CLO:3)**Presentation on progress of research on the Term Paper****(CLO 4 & 5)** | Conservation of Historical Buildings by Sir Bernard M. Fielden |
|  6 | Identification of historic buildings and areas, Demarcation of Historic areas, Criteria for selection of buildings and areas for conservation, Architectural and historical values, Listing and Grading, Adaptive reuse, Consideration of original materials and construction techniques, Role of NGOs and Voluntary bodies, documentation, drawings and photogrammetry Practical Examples, Preparation of Conservation Plans.(CLO:3)**Feedback on learning and Questions/ Answers** | Class Notes & Conservation of Historical Buildings by Sir Bernard M. Fielden |
|   7 | Legislation for Conservation of Cultural Heritage, Existing Legislation in Pakistan and its History. The Antiquities Act 1975, The Punjab Special Premises Preservation Ordinance 1985, Analysis. Required improvements/amendments.(CLO:3)**Assignment 2** | The Antiquities Act 1975, Islamic republic of PakistanThe Punjab Special Premises (Preservation) Ordinance, 1985, Government of the Punjab, Pakistan |
|  8 | MID TERM EXAMINATION Introduction to next topics | Class Notes |
|  9 | Law implementing Agency, its structure, organization etc. under the jurisdiction of the Law/Act. Department of Archaeology and Museums, Pakistan, its history, organization and analysis of its functions(CLO:1 & 3)**Question- Answer Session on Assignment 2** | Archaeology in Pakistan by Dr. Ahmad Nabi Khan |

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|  10 | Criteria and Identification of Historic Buildings and Areas. Consideration of already Listed Buildings, Historic Literature, Survey of a Historic Settlement for identification of Historic Buildings.Why Selection and Criteria of Selection of Identified Historic Buildings for the Conservation(CLO:3) **Presentation on Assignment 2****(CLO 4 & 5)** | Archaeology in Pakistan by Dr. Ahmad Nabi Khan&Conservation of Historical Buildings by Sir Bernard M. Fielden |
|  11 | Detailed Survey and documentation, Photography, Measurements, Video etc.Consideration of Architectural Value, Historical Value and Present Condition for Listing and Grading(CLO:1, 2 & 3)**Review of the work done on Term Paper (CLO 4 & 5)** | Conservation of Historical Buildings by Sir Bernard M. Fielden |
|   12 | Conservation of Historic Areas, Demarcation and consideration of significant and non-significant buildings situated within the area.Causes of decay and deterioration(CLO:3)**ASSIGNMENT 3** | Class Notes &Conservation of Historical Buildings by Sir Bernard M. Fielden |
|  13 | Adaptive Re-Use/Recycling of the Historic BuildingsBuilding Materials and Construction Techniques used in the Conservation works(CLO:1 & 3)**Further discussion on Assignment 3** | Conservation of Historical Buildings by Sir Bernard M. Fielden |
|  14 | Examples of the Conservation Works in Pakistan such as PEPAC Conservation Plan of the old Walled City of Lahore.Consideration of the role of various tiers of the Government(CLO:3)**Final review of the Term Paper and Submission** **(CLO 4& 5)** | Conservation Plan for the Walled city of Lahore, Lahore Development Authority (LDA), Lahore |
|  15 | International Charters for the Conservation of Cultural HeritageRole of Voluntary bodies, NGOs etc.(CLO:1 & 2)**Submission of Assignment 3** | International Charters for Conservation for historic assets |
|  16 | FINAL EXAMINATION | Class Notes and reading material referred above  |

Prof. Dr. Muhammad Yusuf Awan