**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-524 Course title: Professional Practice**

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| --- | --- |
| Program | **Professional Practice** |
| Credit Hours | 3+0 |
| Duration: | Spring Semester |
| Prerequisites | Construction Management and Project Scheduling (AR-514) |
| Resource Person |  Ar. Ilyas Malik |
| Counseling Time | Ar. Ilyas Malik (Wed. + Thursday 10-12pm) |
| Contact |  ilyas.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** |
| **524.1** | **524.C1** | Show an understanding and awareness of architectural practice in the field.  | **Cognitive 6** |
| **524.2** | **524.C2** | Examine the office set-up of significant architects and comprehend the working in a private and or govt. office. | **Cognitive 3** |
| **524.3** | **524.C3** | To create an agreement with client to provide consultancy services. | **Cognitive 1** |
| **524.4** | **524.C4** |  Develop an understanding to deal with professional organizations and development authorities and clients. | **Cognitive 4** |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Semester** | **Course Code** | **Title** | **Course Learning outcomes** | **Cognitive/Affective/Psychomotor** | **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:** |
| **Spring 2023** | **AR-524** | **Professional Practice** |  Show an understanding and awareness of architectural practice in the field.  | C6 | √ |  |  |  |  |  |  |  |
| Examine the office set-up of significant architects and comprehend the working in a private and or govt. office. | C3 |  | √ |  |  |  |  |  |  |
| To create an agreement with client to provide consultancy services. | C1 |  |  |  | √ |  |  |  |  |
|  Develop an understanding to deal with professional organizations and development authorities and clients. | C4 |  |  |  |  |  | √ |  |  |
|  |  |  |  |  |  |  |  |  |  |

**Learning Methodology:**

The objective of the course is to help the student, to envisage different off-shoots of the field before graduating as an architect. Yet it is also an inner urge that is better described as a calling than a career choice. To become an architect implies a way of living and working that is not easily defined. Perhaps it is better understood as an exploratory journey that can have many variations from the responsibility to act as the principal orchestrator of a major building project to positions in government. But most of all, to become an architect is to form a way of thinking that influences the ability to see solutions that do not yet exist. This is the inherent power of the discipline of architecture, and it is what makes the study of architecture relevant in even the most difficult economic periods.

To consider the study of architecture in this way is to understand that an architectural education is the foundation for many careers that relate not only to the traditional building industry but also to those that extend into a myriad of other choices. Among the choices that readily come to mind are the roles architects have assumed in real estate and business as well as in the entertainment industry and the fields of animation and information technology development. Clearly the choices and opportunities are broad, and the life of an individual who has studied architecture has been substantially enriched. A life in architecture is defined by opportunity and choice. It can be a journey made confusing by the number of curricular choices and the variety of institutional settings and career options. This course sheds light on different paths which can be opted in the field of built environments.

Every potential student of architecture will benefit from the guidance on how to proceed with the selection of a place of study. In short this course provides the insights to guide an individual through the many choices available in a career in architecture.

**Grade Evaluation Criteria**

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

**Marks Evaluation Marks in percentage**

Quiz 10

Assignments 10

Mid Term 25

Presentations 5

Final exam 50

Total 100

**Recommended Text Books:**

1. The architect in practice by David Chappell and Andrew Willis. (Lecture 1 pages 55-64, Lecture 3 pages 62-83)
2. Project Administration for design-build contracts by James E Koch, Douglas D. Gransberg , Keitch R. Molenaar.
3. The Architecture Student’s Handbook of professional practice.
4. The Architects Handbook of Professional Practice, Google Books.
5. Professional Practice by Paul Seagal.
6. Architect’s Professional Practice manual by James Frank.
7. Professional Practice by 101 by Andy Press.
8. Wiky: Architect’s Essentials of Professional Practice series.
9. Managing the design process in the construction industry by Joseph (Available in Library).
10. The Practice of Architecture, Eight Architects, 1830-1930 (Available in Library).
11. Corporate Architecture by Chris Van (Available in Library).
12. Project management Architecture (Available in Library).
13. Legal Aspects of Architecture, engineering and Construction process (Available in Library). (Lecture 9)
14. Careers in Architecture by Oliver Burston (Available in Library).
15. Developing Business systems and Architecture by Paul Harman (Available in Library).

**Reference Websites:**

* <http://www.pcatp.org.pk/>
* [www.pec.org.pk](http://www.pec.org.pk)
* [www.ppra.org.pk/](http://www.ppra.org.pk/)

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

**Course code: AR-524 Course title: Professional Practice**

|  |  |  |
| --- | --- | --- |
|  **Week** |  **Course Contents**  | **Reference Chapter(s)** |
|  1 | * General introduction about the importance of subject / course.
* Architect’s Services.
 |  |
|  2 | * Working as an Employee and Self Employment. Criteria to get a job, work environment, duties and hiring criteria.
 | **(Assignment#1,Briefed)** |
|  3 | * Working as an Employer, Types of Companies, and firm registration.
* Procedures & Practice for Project hunting.
 |  |
|  4 | Presentation of **Assignment#1** in Group |  |
|  5 | * Building By-laws/Regulations & Building Codes.
* Role of PCATP, PEC. Design Competitions & Exhibitions.
 |  |
|  6 | * Basic Consultancy agreement for a house project.
* Stages of a design project.
 |  |
|  7 | **Mid Term** |  |
|  8 | Types of Contracts. | **Assignment# 2** briefed. |
|  9 | * Importance of insurance.
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| --- | --- | --- |
|  10 | * Role of Risk management in Building Industry.
 |  |
|  11 | * Professional Liabilities in Construction Industry.
 |  |
|  12 | * Presentation of **Assignment#2** in Group.
 |  |
|  13 | * PC-1 Performa.
 |  |
|  14 | * Project Control Estimate, ISO- 9000 Certification
 |  |
|  15 |  Guest Lecture |  |