**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-126 Course title –Visual Communication-II**

|  |  |
| --- | --- |
| Program | B.ARCH |
| Credit Hours | 0+3 |
| Duration | **Course: Spring Semester 2023**15 Weeks + Examination |
| Prerequisites | Visual Communication-I and Basic Design - 1 |
| Resource Person | Ar. Zahid T. Ahmad, Ar. Saira Naeem |
| Counseling Timing(Room# ) | As per timetable |
| Contact | zahid.tauqeer@umt.edu.pksaira.naeem@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).

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

**PLO 2 Design 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** |
| **126.1** | **126.C1** | Develop adequate freehand drawing skills and be able to develop proportionate sketch of any composition. | **P-2** |
| **126.2** | **126.C2** | Demonstrate understanding of the basic contents of an architectural drawing i.e. Plan, Elevation and Cross Section. | **A-3** |
| **126.3** | **126.C3** | To be able to translate orthographic views into 3-dimensional drawings. | **P-5** |
| **126.4** | **126.C4** | Understand and is able to draw perspective views both One and Two point. | **C-2** |
| **126.5** | **126.C5** | To be able to create models using different materials. | **C-6** |

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

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Semester** | **Course Code** | **Title** | **Course Learning outcomes** | **PLO 1: Architectural Knowledge** | **PLO 2: Design Analysis and development** | **PLO3: Case study analysis Design/Development of Solutions Design/Development of Solutions Design/Development of Solutions** | **PLO 4: Digital Tool Usage**  | **PLO 5: Environment and Sustainability** | **PLO 6: Project Management** | **PLO 7: Design Coordination** | **PLO 8: Ethics and the society**  |
| **3rd** | **Ar-126** | **Visual Communication-II** | Develop adequate freehand drawing skills and be able to develop proportionate sketch of any composition. | √ |  |  |  |  |  |  |  |
| Demonstrate understanding of the basic contents of an architectural drawing i,e Plan, Elevation and Cross Section. | √ |  |  |  |  |  |  |  |
| To be able to translate orthographic views into 3-dimensional drawings.  | √ |  |  |  |  |  |  |  |
| Understand and is able to draw perspective views both One and Two point. | √ |  |  |  |  |  |  |  |
| To be able to create models using different materials. | √ |  |  |  |  |  |  |  |

**GRADING POLICY**

Class Assignments – 75%

Mid Viva & Portfolio – 10%

Final Viva & Portfolio – 15%

TOTAL – 100%

**Recommended Text Books:**

**Reference Books:**

* Color Harmony by Bride M. Whelan ----------- Color Value
* Architects’ Drawings by Kendra Schank Smith ----------- Styles and Techniques
* Architectural Graphics Fifth edition by Ching ----------- Perspective drawings
* Architectural Models ----------- A challenge for tomorrow Models
* Architecture Form, space & order by ching ----------- shapes, vertical elements space
* The Beginners Guide by Ian Sidaway ----------- Technique light to dark
* Perspective depth & distance by Geoff Kersey ----------- perspective
* Freehand Drawing & discovery by James Richards, DK Ching ----------- Keys to drawings
* Architects’ Drawings by Kendra Schank Smith ----------- Styles and Techniques
* Interior Graphic standards second edition by Corky BinggeliAsid ------ Accessibility Standards
* Interior Graphic standards second edition by Corky BinggeliAsid ------ Human factors
* Time Saver Standards by Callender, John Hancock.

**Course Schedule**

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| --- | --- | --- |
| **Weeks** | **Topics** | **Textbook /****Reference Readings**  |
| Week 1-2 | A comprehensive Overview and Revision of VC-I Portfolio especially to ensure clear understanding of Theoretical, Conceptual, Analytical as well as Practical issues related to Architectural Scales, Orthographic Projection, Isometric View, as observed/criticized in the Viva. Standard symbols of materials and fixtures as used in Architecture. | C-2 |
| Week 3 | **ONE- POINT PERSPECTIVE DRAWING**Basic Introduction to different types of PERSPECTIVE VIEWS. How to draw Exterior and Interior One Point Perspective views Freehand as well as using instruments and properly rendered with shade/shadows etc. while using Basic Principles and Drawing Methods.  | P-2 |
| Week 4 | **ONE –POINT PERSPECTIVE PROJECT**In continuation with previous week assignment students are now expected to produce One Point perspective using their Basic Design Project. Students will also be given assignment for outdoor sketching to further enhance and improve their Freehand Drawing skills as per description give above. | C-2 |
| Week 5 | **TWO- POINT PERSPECTIVE DRAWING**[Two point perspective](http://drawsketch.about.com/od/perspective/ss/2ptperspective.htm) definition and how to draw it, Mechanical and Free hand drawing techniques of making Two point perspective views. | C-2 |
| Week 6 | [Two point perspective](http://drawsketch.about.com/od/perspective/ss/2ptperspective.htm) views of their Design Studio Project. | C-2 |
| Week 7 | Lecture and Introduction to techniques using various materials for model making like art paper, card board, balsa wood. Model making in relation to Basic Design I assignments | C-6 |
| Week 8 | Model making exercise of selected UMT buildings generated from pictures. | C-6 |
| Week 9 | MID TERM EXAM |  |
| Week 10 | Students will prepare the finished models from week 8 and will now draw all Orthographic as well as isometric views of these buildings. | P-5 |
| Week 11 | Basic Design II project will be developed into 3d views and interior views, using one-point, two-point and isometric views | C-3 |
| Week 12 | Introduction to Architectural Rendering. Rendering project will be done in relation to their design Studio project. | C-3 |
| Week 13 | Rendering Techniques applied to BUILDING PLANS, ELEVATIONS, SECTIONS and PERSPECTIVES already drawn in class. | C-3 |
| Week 14 & 15 | **Enrichment of PLANS, ELEVATIONS, PERSPECTIVES thru introduction of TREES, CARS HUMANS etc. to incorporate a sense of Scale and Proportion in the views**Trees/Shrubs/Hedges/Grass, Pavements/Walkways etc. are very important part of architectural drawings specially when it comes to landscape drawings or site planning. Students are expected to develop an understanding of the importance of such graphical information of the plantation and green areas by drawing trees in plan and elevation views. | A-3 |
| Week 16 | **Final Term Exam** |  |