**School of Architecture and planning**

**University of Management and technology**

**Course Outline (on OBE)**

**Bachelor of Interior Architecture**

**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 code - **???** Course title – **FOUNDATION STUDIO– I**

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| --- | --- |
| **Program** | BS-INTERIOR ARCHITECTURE |
| **Credit Hours** | 0+6 |
| **Duration** | 15 Weeks + Examination |
| **Prerequisites** | None |
| **Resource Person** |  |
| **Counseling Timing (Room# )** | As per timetable |
| **Contact** |  |

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

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

**Program Educational Objectives (PEOs):**

**PEO-1**: Able to interpret and elaborate on design knowledge effectively utilizing communication, graphical, and computer skills to convey design content comprehensively.

**PEO-2**: Possess strong analytical skills and ability to evaluate design challenges critically, proposing innovative solutions that address functional, aesthetic, and contextual considerations.

**PEO-3**: Able to apply principles of interior architecture in professional settings, showcasing creativity, technical proficiency, and adherence to ethical standards.

**Program Learning outcomes (PLOs)**

**PLO 1:** Design Fundamentals: Develop the ability to conceive and execute innovative and aesthetically pleasing interior spaces that meet both functional requirements and artistic standards.

**PLO 2:** Design Development and Analysis: Integrate knowledge from various disciplines to analyze complex design problems and demonstrate proficiency in conceptualizing and developing design solutions through various stages.

**PLO 3:** Technical and Technological Competence: Acquire a comprehensive understanding of construction methods, materials, and building systems coupled with expertise in utilizing industry-standard software and tools for design, drafting, modeling, and rendering, to produce precise and detailed technical drawings and specifications.

**PLO 4**: Effective Communication and Visual Representation: Enhance ability in expressing design concepts and solutions through verbal and written communication, while adeptly employing visual representation tools like sketches, renderings, and digital models.

**PLO 5:** Sustainability and Environmental Responsibility: Demonstrate a commitment to sustainable design practices by understanding and applying principles of environmental stewardship, energy efficiency, and resource conservation in interior architecture projects.

**PLO 6:** Professional Readiness: Prepare for professional practice in interior architecture by imparting knowledge of ethical, legal, and business aspects, while fostering skills in project management, client communication, collaboration with other design professionals, and adherence to industry standards.

**Course learning outcomes (CLO’s)**

After studying this course, the students will be able to:

1. What are the core elements and principles of design and effectively apply them in 2-D and 3D design compositions. (C1)
2. Illustrate an understanding of scale, proportion, lighting effects. (C2)
3. Experiment with color theory and harmonious color schemes to enhance design compositions using poster colors and differentiation of visual and physical textures. (C3)
4. Analyze figure-ground relationships, geometric patterns and tessellation concepts, to create designs with visual impact. (C4).

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

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Semester** | **Course Code** | **Title** | **Course Learning outcomes** | **PLO 1: Design Knowledge** | **PLO 2: Design Analysis and development** | **PLO3: Design Tools and technologies** | **PLO 4: Communication Skills** | **PLO 5** **Ethical, cultural, and sustainable principles** | **PLO 6: Project Management** |
| **1ST** | **???** | **FOUNDATION STUDIO – I** | What are the core elements and principles of design and effectively apply them in 2-D and 3D design compositions. (C1) | √ |  |  |  |  |  |
| Illustrate an understanding of scale, proportion, and lighting effects. (C2) | √ |  |  |  |  |  |
| Experiment with color theory and harmonious color schemes to enhance design compositions using poster colors and differentiation of visual and physical textures. (C3) | √ |  |  |  |  |  |
| Analyze figure-ground relationships, geometric patterns and tessellation concepts, to create designs with visual impact. (C4) |  | √ |  |  |  |  |

**Learning Methodology:**

In accordance with HEC curriculum **outcomes**, students at the end of the course should be able to

* Develop an attitude towards creative design thinking process.
* Acquiring a comprehensive understand of basic concepts and terms of basic design
* Understand application of design fundamentals in architecture
* Appreciate the importance of basic design concepts to start with.
* Acquire an ability to express their design intentions through oral, written and graphic presentation skills.

**Grade Evaluation Criteria**

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

# Marks Evaluation Marks in percentage

Assignments 60%

Mid Viva 15%

Final Viva + Final Project 25%

**Total 100%**

**Recommended Text Books:**

**Reference Books:**

1. Architecture: Space. Form & Order by Francis D.K Ching
2. The Process: A New Foundation in Art and Design By Richard Wilde and Judith Wilde
3. Color harmony a guide to creative color combinations Chijiiwa, Hideaki by Chijiiwa, Hideaki.
4. The art of using color a course in mastering the art of mixing colors Edwards, Betty by Edwards, Betty.
5. Color Studies Edith Anderson Feisner, Ronald Reed
6. Minbar of Saladin : Reconstructing A Jewel of Islamic Art by Lynette Singer, Thames and Hudson, 2008
7. Islamic Geometric Design by Eric Broug
8. Biomimicry: Innovation Inspired by Nature by [Janine M. Benyus,](https://www.kirkusreviews.com/search/?q=Janine%20M.%20Benyus;t=author) Publisher: Quill, 1998
9. Organic architecture inspired by nature by Schleifer, Simone K. Barcelona, Spain: [Loft Publications,](https://lrc.umt.edu.pk/cgi-bin/koha/opac-search.pl?q=Provider:Loft%20Publications%2C) 2010
10. Street Furniture by [Chris van Uffelen](https://www.google.com.pk/search?tbo=p&tbm=bks&q=inauthor:%22Chris+van+Uffelen%22) , Publisher:Braun, 2010
11. Model Making: Conceive, Create and Convince by Arjan Karssen & Bernard Otte
12. NEW SPACE 1 TO 9.
13. Analysing Architecture by **Simon Unwin**
14. The Elements of Modern Architecture: Understanding Contemporary Buildings by Antony Radford
15. Investigate, Ask, Tell, Draw, Build: 3xn Architects by Matteo Cainer
16. Thinking About Architecture: An Introduction To Architectural Theory by Colin Davies
17. The Language of Architecture: 26 Principles Every Architect Should Know by Andrea Simitch
18. Wonders of World Architecture by Neil Parkyn
19. Space Planning Basics by Mark Karlen, Rob Fleming
20. [The Architecture Reference & Specification Book: Everything Architects Need to Know Every Day](https://aax-us-east.amazon-adsystem.com/x/c/Qr-jeSuoX0aRfOOI8nvwKsgAAAFsoVzlhQEAAAFKAeSEF5U/https:/assoc-redirect.amazon.com/g/r/https:/www.amazon.com/Architecture-Reference-Specification-Book-Everything/dp/1592538487?imprToken=K4YSFoFN526uLYZbTP.AbA&slotNum=4&SubscriptionId=AKIAIOCEBIGP6NUBL47A&tag=thearcsgui07-20&linkCode=xm2&camp=2025&creative=165953&creativeASIN=1592538487) By Julia McMorrough
21. [The Ten Books On Architecture (Illustrated)](https://aax-us-east.amazon-adsystem.com/x/c/Qr-jeSuoX0aRfOOI8nvwKsgAAAFsoVzlhQEAAAFKAeSEF5U/https:/assoc-redirect.amazon.com/g/r/https:/www.amazon.com/Ten-Books-Architecture-Illustrated-ebook/dp/B0013K2K8Q?imprToken=K4YSFoFN526uLYZbTP.AbA&slotNum=16&SubscriptionId=AKIAIOCEBIGP6NUBL47A&tag=thearcsgui07-20&linkCode=xm2&camp=2025&creative=165953&creativeASIN=B0013K2K8Q) By Vitruvius
22. [Understanding Architecture: Its Elements, History, and Meaning](https://aax-us-east.amazon-adsystem.com/x/c/Qr-jeSuoX0aRfOOI8nvwKsgAAAFsoVzlhQEAAAFKAeSEF5U/https:/assoc-redirect.amazon.com/g/r/https:/www.amazon.com/Understanding-Architecture-Elements-History-Meaning/dp/0813349036?imprToken=K4YSFoFN526uLYZbTP.AbA&slotNum=22&SubscriptionId=AKIAIOCEBIGP6NUBL47A&tag=thearcsgui07-20&linkCode=xm2&camp=2025&creative=165953&creativeASIN=0813349036) By Leland M. Roth, Amanda C. Roth Clark

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

## **Course Code: ??? Course Title: Design Studio – I**

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| **Week** | **Course Contents** | **CLO** | **Reference Chapter(s)** |
| 1 | Basic Introductory Session:  Discussion/Description of course outline, class rules/discipline/attendance, grading policy.  Preliminary theoretical introduction to Design Method and Elements, Primary Shapes and their characteristics.  Exploration of different relationships such as side to side, corner to corner, side to corner, overlapping etc. Students will get approval of their 4”x6” 2-D designs on A4 paper and will submit their final design on the next day. | CLO1 | 1. Architecture: Space. Form &   Order by Francis D.K Ching   1. Model Making: Conceive, Create and Convince by Arjan Karssen & Bernard Otte |
| 2 | 2D Exercise on  **Design Principles**.  Students will prepare 6 formats in  Black /White color scheme by using 3-4 primary shapes expressing **Design Principles** such as balance, rhythm, emphasis, contrast, unity etc.  Students will repeat this assignment with any color scheme of their choice. | CLO1 | Architecture: Space. Form & Order by  Francis D.K Ching |

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| 3-4 | **Color Theory/Harmony**- An Exercise on use of Poster color.  Students will prepare a sheet by implementing color theory. | CLO3 | 1. Color harmony a guide to creative color combinations Chijiiwa, Hideaki by Chijiiwa, Hideaki. 2. The art of using color a course in mastering the art of mixing colors Edwards, Betty by Edwards, Betty. |
| 5-6 | Photography of the old buildings and understand there color schemes **– study trip, Dehli Gate , Lahore**  After the trip we focus on the color scheme for an ensemble of  buildings, e.g. a group of buildings in a historical village core. This process begins by   * developing a color concept through collages that represent different moods or atmospheres. * Extract the principal colors and form color chords with varying quantities. * Using these chords, develop an alternative color composition for the facades. | CLO2 | Color harmony a guide to creative color combinations Chijiiwa, Hideaki by Chijiiwa, Hideaki.  The art of using color a course in mastering the art of mixing colors Edwards, Betty by Edwards, Betty. |
| 7-8 | Understanding of **Geometric Patterns.** Concept of tessellation. | CLO4 | --------- |
| 9 | **Mid Term Examination Week** | ---- | ----- |
| 10-11 | **Installation - Scale, Proportion and Light**  Student will explore live size installation based on the concept of scale, proportions and play of light and shadows. | CLO2 | Architecture: Space. Form & Order by Francis D.K Ching  Biomimicry: Innovation Inspired  by Nature by [Janine M. Benyus](https://www.kirkusreviews.com/search/?q=Janine%20M.%20Benyus;t=author)  Organic architecture inspired by nature by Schleifer, Simone K. |
| 12 | **Figure and Ground**  Figure–ground organization is a type of perceptual grouping which is a vital necessity for recognizing objects through vision. In Gestalt psychology it is known as identifying a figure from the background.  For example, words on a printed paper are seen as the "figure" and the white sheet as the "background".  The students have to develop formats for various figure and ground perceptions. | CLO4 | Architecture: Space. Form & Order by Francis D.K Ching |
| 13 | Visual & Physical Textures | CLO3 | Architecture: Space. Form & Order by Francis D.K Ching |
| 14 | Digital Photography – narrative | CLO2 | https://design.tutsplus.com/articles/digital-painting-101-a-beginners-guide-to-photo-references--cms-23950 |
| 15 | **Transformation** of any form like Prism, cylinder octahedral, Hexagon– An exercise based on Solids and Voids. Preparation of glossary of key words and enhancement of Design Terminology/Vocabulary. | CLO1 | Architecture: Space. Form & Order by Francis D.K Ching  http://www.designcoding.net/solidvoid-exercise/ |
| 16 | **Final jury** |  |  |