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: Illustration: Information Graphics, Diagramming, and Publishing**

|  |  |
| --- | --- |
| Program | Bachelor of Interior Architecture |
| Credit hours | 0+2 |
| Duration | 16 Weeks |
| Prerequisites | None |
| Resource Person |  |
| Counseling Timing | As per time table |
| Contact | https://mail.google.com/mail/u/0/images/cleardot.gif |

**Chairman/Director Program 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 Overview:**

This course is designed to equip students with the skills and knowledge necessary to create compelling information graphics, effective diagramming, and professional publishing techniques. Emphasizing both the artistic and technical aspects of illustration, students will learn to communicate complex information clearly and attractively, tailored to the needs of interior architecture. This course combines theoretical principles with practical application, using industry-standard software and techniques.

**Course Learning outcomes (CLO’s)**

1. Design and Create: Design and create professional-grade information graphics and diagrams that effectively communicate architectural concepts and data.
2. Apply Software Skills: Utilize industry-standard software tools (e.g., Adobe Illustrator, InDesign, AutoCAD) for producing high-quality graphics and publications.
3. Critique and Improve: Critically evaluate the effectiveness of information graphics and diagrams, providing and incorporating constructive feedback.
4. Publish Professionally: Develop and publish comprehensive documents and portfolios showcasing interior architectural designs and related information.

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Semester** | **Course Code** | **Title** | **Course Learning outcomes** | **PLO-1 Design Fundamentals** | **PLO-2 Design Development and Analysis** | **PLO-3 Technical and Technological Competence** | **PLO-4 Effective Communication and Visual Representation** | **PLO 5: Sustainability and Environmental Responsibility** | **PLO6: Professional Readiness** |
| **SEMESTER** |  | **Interior Illumination TechniquesMETHODOLOGY** | Design and Create: Design and create professional-grade information graphics and diagrams that effectively communicate architectural concepts and data. | √ |  |  |  |  |  |
| Apply Software Skills: Utilize industry-standard software tools (e.g., Adobe Illustrator, InDesign, AutoCAD) for producing high-quality graphics and publications. |  |  | √ |  |  |  |
| Critique and Improve: Critically evaluate the effectiveness of information graphics and diagrams, providing and incorporating constructive feedback. |  | √ |  |  |  |  |
| Publish Professionally: Develop and publish comprehensive documents and portfolios showcasing interior architectural designs and related information. |  |  |  |  |  | √ |

**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 10%

Quiz 15%

Mid Term 25%

Final exam 50%

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Total 100%

**Learning Methodology:**

* Lectures: Theoretical foundations and principles of information graphics and diagramming.
* Hands-on Workshops: Practical sessions to develop software skills and apply learned concepts.
* Group Projects: Collaborative assignments to enhance teamwork and real-world application.
* Critique Sessions: Peer and instructor reviews to refine work and improve quality.
* Independent Study: Self-directed learning to deepen understanding and proficiency.

**Recommended Books:**

* "The Visual Display of Quantitative Information" by Edward R. Tufte
* "Information Graphics" by Sandra Rendgen and Julius Wiedemann
* "Designing Data Visualizations" by Noah Iliinsky and Julie Steele
* "Publication Design Workbook: A Real-World Guide to Designing Magazines, Newspapers, and Newsletters" by Timothy Samara

**Reference Books:**

* "Architectural Graphics" by Francis D.K. Ching
* "Diagramming the Big Idea: Methods for Architectural Composition" by Jeffrey Balmer and Michael T. Swisher
* "Making and Breaking the Grid: A Graphic Design Layout Workshop" by Timothy Samara
* "AutoCAD 2024: A Power Guide for Beginners and Intermediate Users" by Sandeep Dogra

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

**Course code Course title: Illustration: Information Graphics, Diagramming, and Publishing**

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Course Contents** | **CLO** | **Reference Chapter(s)** |
| 1 | Introduction to Information Graphics and Diagramming  Course overview  Importance of visual communication in interior architecture |  |  |
| 2 | Principles of Effective Information Graphics  Visual hierarchy and design principles  Introduction to software tools |  |  |
| 3 | Fundamentals of Diagramming  Types of diagrams used in interior architecture  Hands-on practice: Basic diagramming techniques |  |  |
| 4 | Software Skills I: Adobe Illustrator  Interface and basic tools  Creating simple graphics |  |  |
| 5 | Advanced Information Graphics  Integrating data and visual elements  Hands-on project: Creating complex information graphics |  |  |
| 6 | Software Skills II: Adobe InDesign  Layout design and publication basics  Creating a simple publication |  |  |
| 7 | Combining Graphics and Diagrams  Case studies and best practices  Hands-on project: Integrated design |  |  |
| 8 | Software Skills III: AutoCAD  Introduction to CAD for diagramming  Basic CAD skills |  |  |
| 9 | **Mid Term Exam** |  |  |
| 10 | Publishing Techniques I  Typography and grid systems  Creating professional layouts |  |  |
| 11 | Publishing Techniques II  Advanced layout design  Hands-on project: Creating a portfolio layout |  |  |
| 12 | Critique and Feedback Session  Peer review and critique  Refining and improving projects |  |  |
| 13 | Final Project Development I  Concept development and planning  Initial design drafts |  |  |
| 14 | Final Project Development II  Detailed design and execution  Peer and instructor feedback |  |  |
| 15 | Final Project Completion  Final touches and preparation  Presentation techniques |  |  |
| 16 | Final Presentations and Review  Presentation of final projects  Course review and feedback |  |  |