

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
(Formerly West Bengal University of Technology)
Syllabus of B.Sc in Interior Design
(Effective from 2023-24 Academic Sessions)

Course Name: Technical Drafting

Mode: Offline

Credits: 5 (3T+2P)

Aim of the Course: To enable the students to develop their technical drawing and drafting skills to present accurate, detailed and professional drawings for interior design projects.

Course Objectives: Developing skills and understanding in drafting, use of scale and measurement, symbols and lines when designing 2-Dimensional & 3-Dimensional views of furniture & spaces and understanding how to use visual drawing and drafting techniques to create space and depth for drawings and representations of rooms and furniture.

Sl. No.	Course Outcomes	Mapped Modules
CO1	The student will get an introduction to the basics of sheet preparation and presentation and understand the principles and importance of technical drafting in interior design.	M1
CO2	The students will understand the principles of dimensioning and scaling in technical drawings and be able to apply appropriate measurements to their interior details drawings.	M1
CO3	The student will get acquainted with the use of drafting tools and learn geometric calculations and drafting techniques using the drafting tools.	M2
CO4	The students will be introduced to the art of representing 3D objects on 2D paper planes for visual presentation.	M3
CO5	The students will be able to integrate isometric and axonometric drawings with other types of technical drawings to provide comprehensive design documentation.	M3
CO6	The students will learn the drafting standards and conventions commonly used in the industry to create accurate and scaled detailings for on-site implementations.	M4
CO7	The student will learn to apply technical drafting skills to interpret and create floor plans, elevations, sections, and other common interior design drawings.	M5

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Learning Outcome/ Skills:

By the end of the course, students should be able to:

- Demonstrate proficiency in creating accurate and scaled technical drawings.
- Utilize drafting tools for creating professional drafting and designs.
- Interpret and create floor plans, elevations, sections, and other common interior design drawings.
- Apply technical drafting skills to communicate design ideas effectively.
- Comply with drafting standards and conventions commonly used in the industry.

ModuleNumber	Content	Total Hours	% of questions	Bloom Level (applicable)	Remarks, if any
THEORY					
M1	Introduction to Interior Design Drafting	5	10	1, 2, 3	NA
M2	Introduction to creating two-dimensional representations	10	20	1, 2, 3	NA
M3	Introduction to isometric and axonometric drawing techniques	10	20	1, 2, 3	NA
M4	Drafting Interior Detailings	20	50	1, 2, 3	NA
M5	Project Work	30	100	1, 3, 6	NA
TOTAL		75	200_	-	

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Detailed Syllabus

Module 1 - Introduction to Interior Design Drafting:

What is engineering drawing?

- Understanding the role of technical drafting in interior design projects
- Overview of drafting tools and materials

Format of the sheet: Border lines, name plate, etc.

Lettering : single stroke, double stroke, vertical/ inclined, capital letters, and inclined letters.

Dimensioning and labeling drawings.

Understanding scale, measurement, and proportion with scale drawing exercises:

- full size
- true scale
- enlarging scale
- reducing scale

Total Hours: 5

Module 2 - Introduction to creating two-dimensional representations:

Line weights, line types, and drawing conventions.

Point, line and concept of distance.

Divide a straight line, a circle, an angle, etc. into a given number of equal parts.

Orthographic projection of solids:

- cube
- cylinder
- pyramids on a base of a square, rectangle, circle, triangle, pentagon, hexagon, etc.
- blocks intersecting at different angles

Total Hours: 10

Module 3 - Introduction to creating three-dimensional representations:

Isometric and axonometric projections of solids (applying shading and rendering for visual clarity):

- cube
- cylinder
- pyramids on a base of a square, rectangle, circle, triangle, pentagon, hexagon, etc.

Total Hours: 10

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Module 4 - Drafting Interior Details:

Detailed drawings for elements such as :

Carpentry Joints
Doors
Windows
Staircases
Partitions
Panelings

Total Hours: 20

Module 5 (Practical) - Project Work:

Students will work on a comprehensive interior design project where they will apply the technical drafting skills learned throughout the course showcasing their ability to communicate design ideas effectively.

Requirements:

Basic manual floor plan drafting

Furniture layout

Flooring layout

False Ceiling

Sectional Elevations (4 walls of each room):

- Master's Bedroom
- Kids Bedroom
- Living Room
- Kitchen (with Typical Detail of a Kitchen Counter)
- Bathroom

Annotating and specifying materials

Total Hours: 30

Suggested Readings:

Time Saver Standards For Building Types by Joseph DeChiara (Author), J. Panero, M. Zelnik
(ISBN-13: 978-0070162990)

Architects' Data by Ernst Neufert, Peter Neufert (ISBN-13: 978-1405192538)

Website:

https://www.designingbuildings.co.uk/wiki/Types_of_drawings_for_building_design

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Course Name: History of Art & Architecture

Mode: Offline

Credits: 5 (4L+1T)

Aim of the Course: To provide an overview of the history of art and architecture from ancient times to the present.

Course Objectives: To explore significant artistic movements, architectural styles, influential artists, and the cultural contexts that shaped the development of visual arts and architecture by combining lectures, discussions, visual analysis, etc. to enhance the understanding of the subject matter.

Sl. No.	Course Outcomes	Mapped Modules
CO1	The students will get a basic understanding of the chronological development and significant characteristics of the key periods and movements in the history of art and architecture.	M1
CO2	The students will be introduced to the importance of various prehistoric art forms, such as cave paintings, rock art, and megalithic structures, and understand their significance in the context of early human societies.	M2
CO3	The student will comprehend the historical and cultural contexts that influenced the production of medieval artworks and architectural structures.	M3
CO4	The students will Identify and differentiate between Renaissance and Baroque art and architectural styles, understanding their distinct characteristics, techniques, and artistic innovations.	M4
CO5	The students will interpret the artistic innovations and themes prevalent in 17th and 18th-century art and architecture	M5
CO6	The students will appreciate the enduring legacy of 19th-century art and architecture.	M6
CO7	The student will recognize the significant artists, architects, and theorists of the modern period, and understand their contributions to the development of art and architecture during this time.	M7
CO8	The student will analyze the role of contemporary art and architecture in reflecting and critiquing contemporary society, politics, and technology.	M8
CO9	The student will recognize the significance of Indigenous architecture and the diverse building traditions of different Indigenous cultures, including vernacular dwellings and sacred structures.	M9
CO10	The student will understand the diversity and regional variations in Islamic art and architecture, appreciating the unique expressions of different Islamic civilizations and periods.	M10

Learning Outcome/ Skills:

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By the end of the course, students should be able to:

- understand the interconnectedness and exchange of artistic ideas, techniques, and styles across different civilizations and regions appreciating the global nature of art and architecture.
- critically analyze and interpret artworks and architectural structures, discerning the formal elements, compositional techniques, and symbolic meanings embedded in the visual creations.
- develop research skills, conducting in-depth investigations into art historical topics.

ModuleNumber	Content	Total Hours	% of questions	Bloom Level (applicable)	Remarks, if any
M1	Introduction to Art and Architecture History	5	5	1, 2, 4	NA
M2	Prehistoric and Ancient Art and Architecture	15	20	1, 2, 4	NA
M3	Medieval Art and Architecture	10	10	1, 2, 4	NA
M4	Renaissance and Baroque Art and Architecture	5	10	1, 2, 4	NA
M5	Art and Architecture of the 17th and 18th Centuries	5	5	1, 2, 4	NA
M6	Art and Architecture of the 19th Century	5	5	1, 2, 4	NA
M7	Modern Art and Architecture	5	10	1, 2, 4	NA
M8	Contemporary Art and Architecture	5	5	1, 2, 4	NA
M9	Indigenous art and architecture	10	10	1, 2, 4	NA
M10	Arts of the Islamic World	10	20	1, 2, 4	NA
TOTAL		75	100_	-	

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Detailed Syllabus

Module 1 - Introduction to Art and Architecture History:

What is art and architecture history?

Understanding visual analysis and art historical methodologies

Overview of key periods and themes

Total Hours: 5

Module 2 - Prehistoric and Ancient Art and Architecture:

Paleolithic and Neolithic art

Nomadic architecture and dwelling structures

Mesopotamian and Egyptian art and architecture

Greek and Roman art and architecture

Egyptian art and architecture

Total Hours: 15

Module 3 - Medieval Art and Architecture:

Early Christianity (Byzantine) and the age of Church Building (Gothic & Romanesque).

Classical Architectural Styles and Developments of Ancient Greece & Rome.

Total Hours: 10

Module 4 - Renaissance and Baroque Art and Architecture:

Idea of Re-birth and Renaissance in Europe and developments in construction and architectural techniques and technologies.

Baroque art and architecture

Total Hours: 5

Module 5 - Art and Architecture of the 17th and 18th Centuries

Dutch Golden Age

Rococo and Neoclassicism

Total Hours: 5

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Module 6 - Art and Architecture of the 19th Century:

Romanticism
Realism and Impressionism
Neoclassicism

Total Hours: 5

Module 7 - Modern Art and Architecture:

Cubism and Futurism
Dadaism and Surrealism
Abstract Expressionism
Art Nouveau
Art Deco
Bauhaus

Total Hours: 5

Module 8 - Contemporary Art and Architecture:

Pop Art and Minimalism
Postmodernism and Deconstructivism

Total Hours: 5

Module 9 - Indigenous art and architecture:

Maya, Aztec, and Inca art and architecture
Pueblo architecture and earthen buildings

Total Hours: 10

Module 10 - Arts of the Islamic World:

Islamic Art and the Representation of Nature
Ornamental and geometric patterns in Islamic art
Notable examples of Islamic religious architecture
Indo-Islamic architecture and its distinctive features

Total Hours: 10

Suggested Readings:

The Great Ages of World Architecture (with Introduction To Landscape Architecture) by G. K. Hiraskar
(ISBN-13: 978-8189928889)