

Syllabus for Ph.D. (Department of Interior Spaces) Entrance Exam Paper -II

UNIT-1

Historical Foundations and Design Principles

- **History of interior design evolution and influential figures:** This involves studying the development of interior design from ancient civilizations to modern times, including key movements, styles, and influential designers/architects such as Louis XIV, Frank Lloyd Wright, and Bauhaus.
- **Core design principles:** Exploring fundamental principles like balance, proportion, rhythm, emphasis, and harmony, which guide the arrangement of elements within a space to create aesthetically pleasing and functional interiors.
- **Cultural and societal influences on interior design:** Understanding how cultural, social, economic, and technological factors impact interior design trends and practices, and how designs reflect the values and needs of different societies.

UNIT-2

Sustainable Design and Materials

- **Principles of sustainable design and green building practices:** Delving into sustainable design principles such as reducing energy consumption, minimizing waste, using eco-friendly materials, and promoting indoor air quality.
- **Sustainable materials selection and application:** Learning about sustainable materials such as bamboo, reclaimed wood, recycled glass, and their suitability for different interior applications.
- **Strategies for energy efficiency and environmental conservation:** Studying strategies for optimizing energy efficiency through passive design techniques, renewable energy integration, and efficient HVAC systems, as well as methods for reducing environmental impact throughout the lifecycle of a building.

UNIT-3

Spatial Planning and Ergonomics

- **Principles of spatial planning and functional layouts:** Examining the principles of space planning to optimize spatial organization, circulation, and functionality within interior spaces, considering factors like traffic flow, zoning, and adjacency.

- **Anthropometric and ergonomic considerations:** Understanding human dimensions, proportions, and ergonomic principles to design spaces that are comfortable, safe, and accessible for users of all ages and abilities.
- **Universal design for inclusive and accessible spaces:** Exploring design strategies and features that accommodate diverse users and promote inclusivity, such as barrier-free access, adjustable furnishings, and sensory design elements

UNIT-4

Technology and Materials

- **Utilization of CAD and BIM software in interior design:** Learning to use computer-aided design (CAD) and building information modeling (BIM) software to create precise drawings, visualize designs in 3D, and streamline the design process.
- **Knowledge of interior materials, properties, and selection criteria:** Familiarizing with a wide range of interior materials, their properties, performance characteristics, and sustainability aspects, and selecting appropriate materials based on design requirements, budget, and environmental impact. Customization and fabrication techniques for furniture and fixtures: Exploring techniques for customizing furniture and fixtures to meet specific design needs, including joinery methods, upholstery techniques, and fabrication processes using various materials.

UNIT-5

Lighting, Color, and Research Methodology

- **Fundamentals of lighting design and its impact on spaces:** Understanding the principles of lighting design, including the properties of light, lighting techniques, fixture selection, and lighting control systems, and how lighting can affect mood, perception, and functionality in interior spaces.
- **Understanding color psychology and application in design:** Exploring the psychological effects of color, color symbolism, color harmony, and color schemes, and how to use color effectively to evoke emotions, create visual interest, and enhance spatial perception.
- **Research methodologies relevant to interior design scholarship and ethical considerations:** Learning research methods such as literature review, case studies, surveys, and experiments, and understanding ethical considerations in conducting research, including informed consent, confidentiality, and integrity in data collection and analysis.

References:

1. "Interior Design Illustrated" by Francis D.K. Ching and Corky Binggeli
2. "Human Dimension and Interior Space" by Julius Panero and Martin Zelnik
3. "Lighting Design Basics" by Mark Karlen and James R. Benya
4. "Sustainable Design: A Critical Guide" by David Bergman
5. "Materials for Interior Environments" by Corky Binggeli
6. Journal of Green Building
7. Journal of Interior Design
8. Lighting Research & Technology
9. Autodesk Knowledge Network: <https://knowledge.autodesk.com/>
10. Material ConneXion: <https://www.materialconnexion.com/>
11. International Association of Lighting Designers (IALD): <https://www.iald.org/>